

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

APRIL 1, 1958



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Editorial

SERVICE CHARGES

Among the current problems of retail nurserymen, especially landscape firms, are the telephone calls from new homeowners who seek advice on planting their grounds and who have no intention of placing an order. Sometimes a good salesman can turn such a call to profit either by booking a planting job or by obtaining an order for the stock if the owner is set on doing the planting himself. But often these telephone calls lead to nothing except wasted time on the part of the nurseryman or his salesmen.

Suggestions have been made as to meeting this problem in several ways. By questioning the individual when the call is received over the telephone, the nurseryman may obtain information that will enable him to screen the calls, so that he or his salesmen will go out only on those which offer a possibility of profit. This is a difficult procedure, however, and is only possible if a definite routine of questioning is established or if somebody with a good deal of judgment answers the telephone.

Another solution is to make a service charge on such calls, to be absorbed if an order for stock or for planting is received. This charge may be a nominal one, or it may be made sufficient to cover the time of the nurseryman or salesman, depending upon the nature and number of the telephone calls in his territory. This is similar to the charge made for planting plans by some landscape firms, billed to the homeowner unless he places an order of a certain amount to carry out the plan. Such a charge has met difficulties in the past, but some firms adhere to it closely.

There is good basis for a current service charge for calls by nursery salesmen. When one wishes his television set put in order, or some other household appliance needs attention, it is common practice for the repair-

man to make a service charge of \$2 or \$3 or \$5, depending upon the locality and type of set or appliance; of course, the costs of parts and of any extended time spent on the job are charged additionally. Most persons realize today that wages are so high that no businessman can expect to give much service absolutely free. Anybody who ignores that fact today is so unreasonable as to be a poor sales prospect for the nurseryman or anyone else.

As in so many cases of sales problems, this one depends upon the character of the community, the size of the homes and the nature of the nurseryman's business. In some cases leads for sales calls are welcomed, whatever the source, the average outcome proving of value. But if the result is unprofitable, the nurseryman may adopt the practice of making a fee for his calls when he finds that the homeowner desires advice and nothing else.

MECHANIZATION

When one calls to mind the mechanical devices which have been of great assistance to nurserymen, one probably thinks first of planting machines, diggers, balling machines, root pruners, weeders and the like. Those are of prime importance to wholesale growers, though mechanical belts in grading, sorting and counting shrubs grown in large quantities are coming into use, while various types of motor trucks, hand trucks and the like are taking the burden off the backs of the employees and enabling them to accomplish more work at higher efficiency.

In the field of landscape contractor, laborsaving trucks, with hoist or lift platforms, scoops, etc., are also of high value. Hole diggers, trenchers and similar adaptable machinery are finding more use in that field. It is more difficult to apply mechanical devices when the number of plants handled on an individual job is relatively few, whereas the wholesale grower finds it worthwhile to spend time and money to adapt machinery to his uses when the number of plants in an operation runs into the thousands or tens of thousands.

Mechanical means have been found to speed up and lighten the load of mail-order nurserymen in the office, as well as in the assembling, packing and shipment of stock. Few firms are big enough to use the business machines, or mechanical brains, which are useful in enterprises of the

largest size. But some of the smaller machines have been found adaptable to keeping records and assembling orders. Of course, such office devices as mailers are common, and similar useful gadgets accompany them.

In the retail field mechanization has a lesser place, but the observation of store operations in other fields reveals the introduction of some devices which make selection by the customer easier and reduces the labor of handling on the part of the employee.

Every so often attention is called to another device adapted to the nursery field by the ingenuity and thought of some member of the industry. The extent to which mechanical devices can be used depends upon the nature of the individual enterprise, and the conclusion to be drawn is that each nurseryman, by keeping his eyes open to advantages in other fields, can now and then find a helpful gadget or machine for his own enterprise.

PLANT AMERICA

Not much appears in print now about the development of the "Plant America" program instituted nearly five years ago by the American Association of Nurserymen, yet it continues with remarkable vitality in the state planting programs carried on by local nurserymen's associations in cooperation with such other sponsoring agents as civic clubs, conservation groups, garden clubs and a diversity of others.

Perhaps these achievements should be heralded more widely so as to lend encouragement to the state organizations that have not yet reached the enthusiastic stage attained in others. It is reported that 35 states now have planting programs, and the sponsor organizations in each state vary in number from a few to nearly two score.

The trees planted on various projects in some states run into the thousands, and the shrubs run into the millions. The public has benefited by improved plantings on streets, in parks, on church and hospital grounds and about civic buildings, not to speak of the improvements in home grounds, development of wildlife areas, industrial beautification, highways, school grounds and the like. It is a program which should be carried forward in every state, with increase rather than diminution of enthusiasm, for the projects that may be developed are innumerable.

Trade Rules Hearing Opens at Chicago

Amendments and New Rule Proposed; Lively Debate on Bench Roses

What started out as a quiet open hearing on a few amendments to the trade practice rules for the nursery industry that were promulgated June 27, 1956, turned into an active debate between representatives of the florists' and the nurserymen's industries on rule 5, which states, "It is also an unfair trade practice to sell, offer for sale or distribute industry products which have been used in the commercial greenhouse production of cut flowers (e.g., greenhouse bench or bed-grown rosebushes) without adequately and nondeceptively disclosing that such products were used in the commercial greenhouse production of cut flowers and discarded after having served their usefulness in such production."

On the morning of February 27, at Hotel La Salle, Chicago, Edward Hall, attorney for the federal trade commission, and Robert Secrest, FTC commissioner, presided over the hearings. Mr. Hall announced that four other FTC members would study the suggestions from this conference and the one to be held in New York, March 10, and would issue a set of revised rules for a public hearing before the final rules were released.

Amendments Proposed

Richard P. White, executive vice-president of the American Association of Nurserymen, made the opening statement of the hearing by say-

ing that the trade practice rules have been effective in several manners of use, but changes are necessary. Dr. White introduced Clark Kidd, Arp Nursery Co., Tyler, Tex., chairman of the fair trade practices committee of the A. A. N. and the National Mail Order Nurserymen's Association, who said the several proposed amendments had been agreed upon by the two groups.

Rule 1, section (g), is a broad rule and too general, said Dr. White, who read the amendments. It was recommended that this paragraph be revised to read as follows, indicating an unfair practice:

"That the appearance of an industry product as to size, contour, foliage, color or extent of bloom, fruiting and other physical characteristics, is normal or usual, when the appearance so represented or depicted is abnormal or unusual."

There is a need to qualify further rule 1, section (h), as it is too general and should be based on deceptive practices to the consumer, said Dr. White. The section should be revised to read as follows:

"That the root system of any plant is appreciably larger than that which actually exists, whether accomplished by means of deceptive packaging, balling or other deceptive practice."

New Name Deception

Rule 2, deception through use of names, does not take into consideration a new name which already has an established common name, said Dr. White. A person can apply a new name to a product which already has an established common name. There is a need for a rule when a new name has a tendency to deceive. It was recommended that this rule be amended by the addition of two new paragraphs to be positioned between the second and third paragraphs of the present rule, these paragraphs to read as follows:

"When an industry product has acquired an established and generally recognized common or varietal name, it is an unfair trade practice for an industry member to adopt or use a new name for such product, where the use of such new name has the capacity and tendency or effect of deceiving purchasers or prospective purchasers as to the true identity of such product."

"When, however, an imported cul-

tivated variety bears a name unknown or unfamiliar to the purchasing public, and a common name for such variety has not been established in the industry, the imported cultivated variety may be renamed, provided no deception of purchasers or prospective purchasers, as to the true identity of the product, results from such renaming. The name of an imported cultivated variety, because of linguistic difficulties, may also be translated into the English language."

Rule 3, substitution of products, is to correct substitution of inferior merchandise without prior notification, said Dr. White. This is more for manufactured items and not for nursery stock, which is perishable. In the nursery industry, substitution is not to deceive the public. It was recommended that the portion of the rule be revised to read as follows:

"In the sale and distribution of industry products it is an unfair trade practice for an industry member:

"(a) To make an unauthorized substitution of industry products on orders received, where such substitution has the capacity and tendency or effect of misleading or deceiving the purchasing public."

"Substitution of industry products may be made by an industry member when an item ordered is no longer available, provided the con-

[Continued on page 131.]



Richard P. White, executive vice-president, American Association of Nurserymen, who presented amendments to existing trade practice rules at F. T. C. hearing at Chicago.



Clark Kidd, chairman of the trade practice committees of two national nurserymen's groups, who reported their agreement on the amendments proposed at official hearing.

Hearing on Trade Rules Continued at New York

By Vincent Vuoto

The controversial last paragraph of rule 5 (concerning selling of bench-grown roses) in the trade practice rules for the nursery industry promulgated June 27, 1956, sparked a spirited discussion at the second open hearing sponsored by the federal trade commission at the Hotel Roosevelt, New York, March 10.

All of the rules were open to free discussion, but testimony was concentrated on the last paragraph of rule 5, especially on the word "non-deceptively" and the last line, which read "... and discarded after having served their usefulness in such production." By and large, the meeting was a continuation of the first session staged at Chicago, Ill., February 27, reported on the previous page, with the principal testimony for the nursery industry in complete accord with the ruling as it now stands and representatives of the florists' industry, principally rose growers, offering testimony to show that the rule limits the market for the sale of bench-grown roses taken out of commercial production for various and sundry reasons.

Edward Hall, F. T. C. attorney, supervised the hearing, and F. T. C. commissioner Robert T. Secrest sat in on the discussion and questioned witnesses on both sides to insure a complete and detailed record, which will be studied and revised if deemed necessary for a further public hearing in the near future.

Prior to the start of the testimonies, Dr. Richard White, executive vice-president of the American Association of Nurserymen, read a series of proposed amendments, revisions and additions to the trade practice rules, the only addition from the Chicago hearing being a reading for the record of section 15 of the Michigan pest and plant control act in support of rule 4.

Review of All Rules

All of the rules were read to those in attendance, with rule 5 purposely held until last. The only discussion provoked by the other rules was concentrated on rule 11, by Gustave Springer, representative of the Holland Bulb Exporters' Association, who said that imported bulbs should be labeled as to their country of

origin. John Walker, executive secretary of the S. A. F., supported Mr. Springer's testimony, as did Everett Conklin, chairman of the S. A. F.'s national affairs committee.

Douglas Dillon, of J. L. Dillon, Inc., Bloomsburg, Pa., vice-president of Roses, Inc., was the first witness called by Downey Rice, counsel employed by Roses, Inc., to offer testimony on why the last paragraph on rule 5 should be amended. As did all the following witnesses, Mr. Dillon gave a detailed report on his education and background in the industry and explained that bench roses were pulled in his establishment not because they were inferior plants, but because of variety changes and need for improving the soil conditions in the beds where they were planted.

Age and Production Records

It is Mr. Dillon's firm belief that any decline in flower production can be traced directly to impoverished soil conditions. To prove his point that the age of a plant has little bearing on production, he offered detailed statistics on production of plants from 1 to 7 years old. His firm, he said, sells on an average of 17,000 bench plants a year. These plants are sold to the firm's retail customers, who in turn sell them to the public.

In conclusion, Mr. Dillon read a letter from Dr. John Seeley, head of the horticulture department at Cornell University, Ithaca, N. Y., which stated that a decrease in flower production of a plant after four to five years is probably due to a breakdown of the soil structure rather than the plant's running down. In all probability such a plant can be replanted in a well-prepared bed and will continue to grow well outdoors if given good care.

However, the writer of the letter continued, he would prefer the use of proved garden varieties as a personal choice for outdoor planting, because of the wide selection, especially of color, which is available. It is also Dr. Seeley's belief, according to the letter Mr. Dillon read, that the consumer should be informed as to the origin of the plant and its true variety name. Mr. Dillon also testified that the park superintendent at

Scranton, Pa., has used bench roses in park plantings and is highly satisfied with their performance outdoors.

S. E. Bennett, secretary of the New York State Nurserymen's Association, questioned Mr. Dillon on the root systems of plants grown in compacted or impoverished soil that was poorly aerated.

Grower Reports No Complaints

Paul Schneeberg, Jr., of Sayville, L. I., read a letter from his father, who was unable to attend the hearing, stating that the ruling as it now stands is unfair. Experiences have shown, the letter read, that there are no customer complaints and that the opinion plants that are pulled from commercial beds will not produce flowers is false, as the plants are far from having served their useful purpose. Greenhouse rose plants offer many persons an opportunity to grow roses that can be purchased within their means. The rule should be revised to encourage people to buy rather than discourage them. Mr. Schneeberg, Jr., showed several samples of rose plants which were pulled from his establishment and claimed that one of the primary reasons for pulling plants is to make variety changes that are in demand. His observations show that the flower production of older plants is still satisfactory.

Dr. Leonard Weinstein, head of a Roses, Inc., research program at Boyce Thompson Institute, Yonkers, N. Y., stated that there is no scientific basis that he knows of to back up the theory of plant exhaustion. Under good growing conditions and care, pulled plants should grow at optimum vitality. If plants are handled properly when they are taken from a greenhouse, it is his opinion that there will be little difference in growth of such a plant and a field-grown one. John Walker, in following Dr. Weinstein's testimony, said that the S. A. F. has a responsibility in seeing that there is no misrepresentation to the public on the part of the industry and that such misrepresentation if it is present should not be allowed to go unchallenged. With this, Mr. Walker recommended the word "nondeceptively" be eliminated from the last paragraph of rule 5, along with the last line in the same paragraph.

Rewording Urged

Robert Nichols, president of Roses, Inc., reported that it was not the intention to prove pulled roses are as good as field-grown stock and he is in full accord with the belief that the

[Continued on page 76]



Participants in the Maryland nurserymen's short course at College Park: Left to right, Dr. Leo J. Enright; Dr. Frank L. Bentz, Jr.; Charles W. McComb; Gilbert Gude; Thomas L. Smith; Frank R. McFarland, and C. Willard Stoner.

Maryland Course on Varied Topics

Insects, Fertilizer, Accounting, Lighting, Soils and Public Relations Discussed

By Harry William Dengler

One of the most paralyzing snowstorms ever to hit the eastern United States caused a week's postponement of the annual Maryland nurserymen's short course at the University of Maryland, College Park, to February 27. Fortunately, all speakers were able to adjust their schedules to the delayed date, and the 95 nurserymen who attended found a fast-moving program of varied items of interest.

In the absence of the Maryland association's president, Gilbert Gude, A. Gude Sons Co., Rockville, who, as a member of the state legislature, was busy at the state capital, Second Vice-president Ray Gustin, Gustin Gardens, Rockville, presided and welcomed the group to the meeting.

Charles W. McComb, department of entomology, University of Maryland, stated that 68 different plant pests were identified in Maryland nurseries last year. He reported on the university's new insecticide and control research project and its value to the nurserymen in the future. When submitting insects for identification nurserymen are urged to send them in well-corked containers of ordinary rubbing alcohol. The containers should be well packed to prevent breakage. Delicate insects, he said, can be impaled on a pin stuck into the base of the cork before the bottle is stoppered. This will insure their arrival in good condition and make identification easier and quicker.

In his comments on some of the insects found in Maryland nurs-

eries, Mr. McComb said that the aphids found on most trees and shrubs should be sprayed as soon as they appear with malathion, six tablespoons of 25 per cent wettable powder to three gallons of water or two tablespoons of 57 per cent emulsifiable concentrate to three gallons of water.

When bagworms on evergreens are too numerous for control by hand picking, the plants should be sprayed about the first week in June with two-thirds cup of 25 per cent malathion wettable powder to three gallons of water or with two-thirds cup of lead arsenate plus a sticker to three gallons water. If spraying is done later than this date, Mr. McComb suggested that the dosage be increased by one third.

Lace bugs on azaleas, hawthorns, oaks and rhododendrons can be controlled by malathion at the same rate as that used on aphids. The spray must be directed to the undersides of the foliage; it will not do any good to spray the upper leaf surfaces, he warned.

Fire Ant Problem

Mr. McComb illustrated his talk with colored slides depicting various insects affecting nursery plants and the types of damage they cause. He called attention to such pests as gypsy moth and the fire ant and warned that these could cause serious trouble in Maryland.

The mention of fire ants evoked a discussion from the audience. A national wildlife association, it was brought out, is vigorously protesting

the damage to birds and wildlife which, the organization thinks, a widespread fire ant control program will produce. This group, plus other bird lovers, might be able to impede the pending federal plans for cleaning up the thousands of acres of pastures and woodlands now infested with the ants. It was felt, however, that more songbirds and wildlife would be killed by fire ants than by any control plan now contemplated.

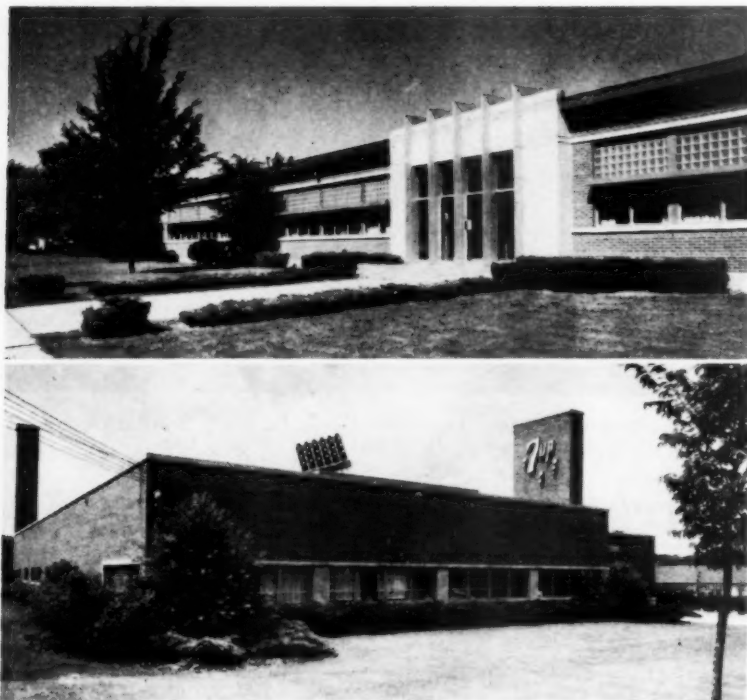
Thomas L. Smith, vice-president, fertilizer sales, Miller Chemical & Fertilizer Corp., Baltimore, Md., stated that in his business it is not merely the nitrogen, phosphorus or potash in the bag that is important, but the materials in which these elements exist. Nurserymen require different and more specific types than those needed by a farmer. The greenhouse grower and an outdoor grower also have different needs.

Fertilizer Developments

Some of the present knowledge of fertilizers is the results of wars, Mr. Smith related. Formerly, this country's nitrogen needs were supplied from imported guano. When these supplies were cut off, other sources had to be developed, chiefly the atmosphere. More is known about nitrogen than any other element found in fertilizer. Nitrogenous compounds are available in all degrees of acidity and alkalinity and give wide choices in formulating fertilizer mixes.

Chemical fertilizers need a conditioning or aging, Mr. Smith con-

[Continued on page 112]



Top, entrance planting of the Democrat Printing Co. building, and bottom, the foundation and corner plantings for the 7-Up Bottling Co., two industrial landscaping projects at Madison, Wis., that won A. A. N. awards for the McKay Nursery Co., Madison.

Wisconsin Nursery Wins Two Landscaping Awards

Simplicity of design and ease of maintenance were the controlling factors in the landscaping of the Democrat Printing Co. building, Madison, Wis., one of two plantings which won awards for the McKay Nursery Co., Madison, in the 1958 industrial landscaping competition of the American Association of Nurserymen.

The shallow setback of the printers' building, as well as its low, uninterrupted lines, suggested to the firm's landscape architect the use of long, low plant masses that would not conflict with the lines of the building. Equally important, with the limited lawn area at the front, was the matter of scale. Taller-growing material was used sparingly and carefully to avoid overemphasis of the planting itself at the expense of the building. Since ease of maintenance was an important factor in this landscape, the designer selected material that could be allowed to grow to its normal shape and size

and would require only one trimming or shearing a year.

Repetition of varieties was employed in order to tie together the long plantings. Pfitzer and Andorra junipers and spreading yews were used for the low masses. Washington hawthorns were used at small ells in the building as soft vertical accents and were dressed down with spreading evergreens. The corners were planted with *Crataegus mollis* and *crusgalli* against a background of deciduous material. The deciduous shrubs were placed behind the individual hawthorns primarily to relate the specimens to the building and to give the impression of one mass instead of two or three individual plants.

Bottler's Building Enhanced

The same basic requirements encountered in the landscaping of the printers' building were recognized and met by the McKay Nursery in somewhat similar manner in its

landscaping of a second Madison building, that of the 7-Up Bottling Co. Whereas the building of the Democrat Printing Co. is surrounded by space suitable for planting, approximately one half of the 7-Up building is bordered by parking areas and roadways. Fortunately, the exact design of these traffic areas was left to the landscape architect, so that proper planting areas could be created.

The building is located in a semi-residential section of the city and, instead of blighting the area, it stands out as an example to the neighborhood surrounding it.

All plant materials used are relatively easy to grow and to maintain. Included are Pfitzer and Sargent juniper, *Taxus cuspidata*, cockspur hawthorn, *Viburnum lantana*, *Cotoneaster multiflora* and *acutifolia*, *Prunus triloba*, *Berberis thunbergii*, *Lonicera zabeli*, Moline elms and *Philadelphus Virginal*. Again, these plants were used in masses rather than as individual specimens, so that the plantings would present a unified appearance.

Designing the landscaping of each building was Kenneth J. Altorfer, landscape architect with the nursery firm. Awards were made to McKay Nursery Co. and the two winning firms at the annual banquet of the Wisconsin Nurserymen's Association this past winter.

NEW A. A. N. CONTEST OPEN

The American Association of Nurserymen has announced for 1959 its sixth annual industrial and institutional landscaping contest. Competition for the 1959 awards will end September 1, 1958, and entries will be judged before January 1, 1959. Decisions will be based on photographic evidence of outstanding landscaping.

Registration of intent to enter the contest should be sent as soon as convenient to Dr. Richard P. White, executive vice-president of the A. A. N., 635 Southern building, Washington 5, D. C. A folder describing the awards and entrance requirements is available on request to the Washington office.

FORMERLY located at 5854 Leavitt road, Amherst, O., Harman's Nursery has moved to 512 North Leavitt road, Amherst.

SHIPPING and mailing operations of the Family Gardens Nursery Sales Co., formerly at Downers Grove, Ill., have been moved to Skokie, Ill.

Pennsylvania Conference on Research

By Robert P. Meahl

The 13th annual nurserymen's conference at the Pennsylvania State University, University Park, Pa., was held February 18 to 20 during the area's worst snowstorm in 20 years. Many roads were closed, buses and trains were not running and planes could not land, but a large representation of nurserymen was able to attend the meetings.

Greetings were given by Dr. R. B. Dickerson, associate dean and director of resident instruction in the college of agriculture. Dr. Dickerson pointed out that it is good for groups such as the nurserymen's to visit the university so that a better understanding of the industry's needs can be determined. He said the opportunities for trained men in agriculture are greater than the supply and urged nurserymen to let the universities know what training young men should have to fit them best for careers in the nursery business. Dr. Dickerson had recently returned from over a year's special work in agricultural education in the Philippine islands and he showed some slides illustrating landscape planting and nursery practice there.

Prof. A. O. Rasmussen, extension ornamental horticulturist at the university, spoke of his recent trip to the west coast and told of the nursery industry as he observed it. He particularly stressed his belief that more emphasis will be placed on container-grown stock. He illustrated

his talk with slides of the places he visited.

Consumer Research

"Homeowners Can Be Better Customers" was a topic discussed by J. E. Kivlin, graduate assistant in agricultural economics. Mr. Kivlin has been making a study of the marketing of ornamental nursery plants as a part of the research program at the university. This study has been concerned with the consumer aspects of merchandising ornamental plants as they affect both the homeowner and the nurseryman. Mr. Kivlin reported on the results of a survey of 640 home-owning families in the newer and older residential areas of towns and cities, the open country and farm areas of Pennsylvania.

M. A. Campbell, United States Department of Agriculture, talked on federal controls of barberry eradication, gypsy moth and Japanese beetles in Pennsylvania. The state is divided into four areas, and anyone wishing to ship material out of a restricted area should seek his area headquarters for assistance.

The panel discussion on the culture of nursery plants brought out the fact that container-grown stock is being used by a number of nurseries. Stanley Leighton, Whitmarsh Nursery, Plymouth Meeting, president of the Pennsylvania Nurserymen's Association, explained the system he follows. He advised obtaining

used cans whenever possible, since they are more economical. However, they have the disadvantages of not telescoping and requiring more storage space. A good potting soil should be used, and special care should be given to watering. Plants can be grown satisfactorily in containers, especially those plants which will finish off in about two years. Plants that are difficult to transplant, such as pyracantha, are good subjects for containers. With proper care, pyracantha should make 18 to 24-inch plants in one growing season. Container stock is also well adapted for garden market sales and can be moved throughout the growing season.

University Program

"The Nursery Program at Penn State — How Can It Help the Industry?" was the subject discussed by R. P. Meahl, professor of ornamental horticulture, at the university. He said the three main areas of activity of the university are resident instruction, research and extension. Student training is considered a highly important function. Instruction is given in the regular 4-year program, in which students study plant propagation; two courses in woody plant identification, herbaceous plant materials and arboriculture; two courses in nursery principles and practices, and two courses in land-

[Continued on page 50]

AWARDS PRESENTED AT THE PENNSYLVANIA NURSERYMEN'S CONVENTION



At the recent meeting of the Pennsylvania Nurserymen's Association at Harrisburg, reported in the previous issue of this magazine, Arthur B. Copenhaver, Copenhaver Nurseries, Mechanicsburg, shown at the left in the first illustration above, presented the P. N. A. school landscape award to John M. Eisler, Eisler Nurseries, Butler. In the second illustration, Louis E. Wissenbach, Squirrel Hill Nursery, Pittsburgh, left, is shown receiving the association's nurseryman of the year award from Mr. Eisler.

Landscape Nursery Group Pools Ideas, Information

By George Siebenthaler

In the fall of 1952 nine landscape-nursery firms from the midwestern and northeastern states held a series of friendly business meetings. Out of these conferences grew an organization now bearing the name Landscape Nursery Council. The council's members are the William A. Natorp Co., Cincinnati, O.; the Siebenthaler Co., Dayton, O.; Rosedale Nurseries, Inc., Hawthorne, N. Y.; the Burwell Nurseries Co., Columbus, O.; Styer's Nurseries, Concordville, Pa.; Farr Nursery Co., Womelsdorf, Pa.; M. J. Hunziker & Sons, Niles, Mich.; Hillenmeyer Nurseries, Lexington Ky., and the Peter Cascio Nursery, West Hartford, Conn.

The officers are Howard C. Taylor, of Rosedale Nurseries, Inc., president; George Siebenthaler of the Siebenthaler Co., vice-president, and J. Franklin Styer, of Styer's Nurseries, secretary-treasurer.

The purposes of the Landscape Nursery Council are to promote friendly relations, to collect and disseminate information, to exchange ideas, to promote higher standards in the industry and to improve public relations.

Intra-Group Study

A unique feature of the council meetings is that each meeting is held at a location from which two members' business establishments are easily reached. In conjunction with

the general business meeting, both host nurseries are visited by all members. These visits then culminate in an informative critique of the business operation so viewed. Every member has found the study of his business operation by his fellow members to be invaluable.

The council has contracted with Vogt & Co., Dayton, O., to perform executive secretarial services and maintain an office. Information is channeled to all members from this office. A systematized idea exchange, an advisory service at members' request and an advertising exchange are a few of the year-round projects that have been undertaken by the council. Any member will testify that it feels great to have an office that often generates a solution to problems as fast as the problems arise.

One might ask, "Why did nine business firms engaged in the same industry unite to assist one another, yet maintain their individual business identity?" The Landscape Nursery Council was formed with the concept that cooperation would bring mutual success. The desire of these landscape nurserymen to keep abreast of modern business methods has made the Landscape Nursery Council what it is.

As the members carried on these noncommercial activities, they realized that cooperation could also re-

sult in direct profits to their individual business entities. Therefore, in 1956, a second corporation, called Lanco, Inc., was formed. Lanco, Inc., is essentially a nursery wholesale establishment. Its purposes, among other things, are to buy, sell and grow nursery stock; to purchase and distribute related products to individual business entities for sale in their garden stores, and to buy, sell and distribute advertising media. Its board of directors elected Howard C. Taylor as president, George Siebenthaler as vice-president and J. Franklin Styer as secretary-treasurer.

Thus, these nine landscape nurserymen have essentially two business vehicles in which they collectively are driving toward a more successful business in a more successful industry.

INDIANA ARBORISTS

The Indiana Association of Arborists elected officers for the coming year on February 28. The group assembled for lunch at the Hotel Roberts, Muncie, Ind., and held its annual business meeting in the afternoon. The new officers are Claude Brown, Weikel Line Co., Fort Wayne, president; Kenneth B. Flaig, Fort Wayne, vice-president, and John Harley, Indianapolis Power & Light Co., Indianapolis, secretary-treasurer.

David Gillie, assistant superintendent of parks, Fort Wayne, was elected a director for a 3-year term. Holdover directors include Charles Lamb, Muncie Tree Surgery Co., Muncie; John Z. Duling, Duling Tree Expert Co., Muncie, and Joseph Cravens, Chmi-Trol Chemical Co., Indianapolis. D. L. S.



Directors of the Landscape Nursery Council (Lanco, Inc.), which met at Cincinnati, O., January 24 and 25. From left to right they are Walter Hillenmeyer; William A. Natorp; Harold Seyler; Frank Styer; Howard Taylor, president; Kenneth Vogt, executive-secretary; George Siebenthaler, vice-president; Peter Cascio; Alex Hunziker, and Walter Burwell.

Garden Show Staged by Long Island Nurserymen

Twelfth Annual Show Brings Breath
Of Spring in Wake of Snowstorm

By Donald Griffiths, Jr.



Rear garden patio display by Hermann Eberhard and Henry M. Feil, best competitive entry by popular vote at the recent Long Island garden show at West Hempstead.

Opening February 22 on the heels of one of the most violent snowstorms experienced locally in years, the 12th annual Long Island garden show presented a pleasing reminder that spring was but a few short weeks away. Just as the population of Long Island increases in size, so does the garden show, which is sponsored by the Long Island Nurserymen's Association.

The first 10 shows were held at Hicks Nurseries, Westbury, L. I., and the 11th was held in the unfinished annex of the Island Garden Arena, West Hempstead, L. I. All of these shows were week-end affairs. This year's show was held in the arena itself—one acre in area—for a 9-day period.

Daniel J. Carey, commissioner for the New York state department of agriculture and markets, Albany, N. Y., and Dr. William A. Medesy, director, Long Island Agricultural and Technical Institute, Farmingdale, were among the distinguished guests present for the official opening. George Hren, Anton Hren Nurseries, Huntington Station, L. I., cut the ribbon to open the show.

Show Committee

The show committee consisted of George Hren, chairman; Raymond C. Schenk, Hicksville, manager; Peter Costich, Hicks Nurseries, Westbury, director; Frank BonGiorno, Suburban Nursery, West Hempstead, treasurer, and Clinton A. Hewitt, Garden City, commercial exhibit liaison.

The garden judges were Joseph F. Roesch, associate professor, chairman of the department of ornamental horticulture, Long Island Agricultural and Technical Institute, chairman; Henry Nye, superintend-

ent, Bayard Cutting Arboretum, Oakdale; Miss Dorothy Peace, landscape architect, Garden City; Roland Schultheis, superintendent, Flushing cemetery, New York city, and Daniel Dowd, associate professor, department of ornamental horticulture, Long Island Agricultural and Technical Institute.

Long Island homeowners were fortunate to have more than two dozen exhibits designed and built specifically for weather conditions of the area. The garden exhibits were grouped in seven classes, ranging from 150 square feet to 1,000 square feet, including a class for educational exhibits. Visitors to the arena found a beautiful array of labeled plant material, many practical ideas in landscaping and a great selection of commercial garden products, which were displayed in more than 40 exhibits, including some garden equipment actually operating in soil.

Students Win Best-in-Show

The best-in-show award was presented to the exhibit constructed by the landscape students of the Long Island institute. This was an impressive achievement for the 22 boys who participated in building the display, as it was their first attempt at exhibition work. Because of their association with the students, Mr. Roesch and Mr. Dowd disqualified themselves in the judging for this award. Besides the silver platter award, this exhibit was presented with a special award, as were all of the noncompetitive educational exhibits.

The garden was a contemporary arrangement that tied outdoor and indoor areas together with a picture window opening on a large flagstone patio. The plants used were not un-

sual varieties, but the effect of the garden was striking in its simple, clean lines. Pink, white and red azaleas, dogwood, bulbs and bedding plants provided the color, with a white brick home as a background.

One of the Long Island newspapers, Newsday, presented an award to the display chosen best in show by popular vote. This award went to Hermann Eberhard, Franklin Square, L. I., and Henry M. Feil for their rear garden patio arrangement. First prize for class I, 1,000 square foot gardens, also was awarded to this display.

Two-Level Garden

The garden was constructed on two levels, with red brick retaining walls and a flagstone patio. The planting material included a large *Ilex crenata* pruned as an ornamental tree, a *Cedrus atlantica*, an *Acer palmatum*, azaleas, *Rhododendron racemosum* and tulips.

John Groeneveld, Roslyn Heights, placed second with an informal natural garden, complete with rocks and driftwood. Third place was awarded to Lewis & Valentine, Greenvale, with a raised rectangular terrace. Below the terrace, a pool and rock garden completed a pleasing combination of formal and informal construction. The plant material used ranged from low hedges to large weeping cherry and pink dogwood specimens.

Hicks Nurseries, Inc., Westbury, won first prize in class II, 800 square foot gardens, with an unusual stream and pool garden, one end of which was set in an evergreen background of hemlocks, rhododendrons, azaleas and native woodland plants. The opposite end of the garden was treated in a semiformal manner, with a



Patio planting, a noncompetitive educational display entered by landscape design students of the state college and judged best entry at the 12th Long Island garden show.

raised patio, bulbs, a formal hedge and choice evergreens.

Second place was awarded to Landscape Associates, Inc., and Dalsimer, Inc., Glen Head, for an unusual garden that featured a large Japanese table pine, with huge, water-worn boulders and river bottom stones from the Delaware river set in granulated marble. Plant material included massed broad-leaved evergreens and Japanese cherry trees.

Woodland Planting

Anton Hren Nurseries, Huntington Station, won third prize with an arrangement that combined a woodland planting and a cultivated area of broad-leaved evergreens, flowering crab apples, double-flowering plums and bulbs. Concrete patio blocks were used to build a retaining wall. The Hren and Hicks displays used the same stream to point out to the public an effect that can be attained by neighbors' joining in their landscape plans.

First prize in class III, 600 square foot gardens, with water and brick or stonework, was won by Atlantic Avenue Nursery, Freeport, with a natural setting that contained a patio constructed of large rectangular flagstones and covered with a large yellow tarpaulin awning. A stone retaining wall was set off by some unusual plant varieties, including new azaleas, a dwarf spruce, *Juniperus procumbens nana*, primulas and tulips.

The second prize was given to Bulk's Nurseries, Babylon, for their walk-in garden that featured a brick wall leading into a brick patio, with a small pool and waterfall constructed of moss-covered rocks. Plant materials included flowering crab

apples and cherries, gray birches, azaleas, tulips and perennials.

Port Washington Nursery, Inc., Port Washington, took the third prize with an interesting 2-level patio and pool. A retaining wall was constructed of uniform, dark gray flagstones.

Class IV Winners

Class IV, 600 square foot gardens, without water and brick or stonework, had Oak Park Nurseries, East Patchogue, as the first-prize recipient for their naturalistic corner planting of broad-leaved evergreens. Japanese black pines, dogwoods, birches and azaleas which were grouped along a pine needle path.

John Kean, Levittown, featured a painted California redwood seat wall, with espaliered forsythia as a background, to gain second place in

this class. A gravel patio area with a utility section and a portable barbecue combined to present a practical and eye-catching exhibit. Jackson

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NORTH DAKOTANS UNITE

The North Dakota Nurserymen's Association was formed last February 19 in an organizational meeting held in the Provident Life building, Bismarck, N. D. Temporary officers were elected by the group as follows: President, Oscar H. Will II, Oscar H. Will & Co., Bismarck; vice-president, R. J. Layton, Northwest Nursery, Valley City, and secretary-treasurer, C. L. Jensen, Jensen's Evergreens. Among committee chairmen named at the meeting were J. C. Talbott, Talbott's Drive-In Nursery, Minot, membership, and William A. Moe, Grafton Floral, Grafton, legislative.

Discussions were held during the meeting on problems affecting nurserymen and on the promotion of the nursery business. Dr. E. P. Lana, horticulture department, North Dakota Agricultural College, Fargo, was the principal speaker at a dinner meeting which concluded the session. He spoke of the N. D. A. C. research program and its benefits to the nurserymen of the state.

Other representatives of North Dakota nurseries at the organizational meeting were N. N. Boehm, Park Hill Nursery, Bismarck; Paul Owens, Owens Floral, Grand Forks; Mr. and Mrs. Martin Johnson, Cheyenne Gardens, West Fargo; Stanley Macemon, Bud's Nursery, Dickinson; Eric Sochting, Northwest Nursery, Valley City, and J. W. Baker, Taylor Nursery, Taylor.



Officers of the North Dakota Nurserymen's Association: Left to right, R. J. Layton, vice-president; Oscar H. Will II, president, and C. J. Jensen, secretary-treasurer.

Virus Diseases of Fruit Trees

By A. F. Posnette

East Malling Research Station, Kent, England.



Figure 1—Left, 40 per cent stand of uneven-sized cherry trees grown from ring-spot infected budwood. Right, 100 per cent stand of uniform trees grown from virus-free budwood.

In recent years, several new virus diseases of fruit trees have been described. Some of these had escaped detection previously because they induce only slight symptoms on most commercial varieties; horticulturists have rightly been cautious in their estimates of the economic importance of such mild diseases to the fruit-growing industry. Some virus diseases, such as phony peach, are already causing serious losses or would if they became more prevalent; others are more insidious and may well lead to greater losses eventually just because they are inconspicuous and impossible to control by roguing. A virulent disease that kills 1 per cent of the trees is more conspicuous and receives more attention but is actually much less damaging to the industry than one that reduces the yield of most of the trees by only 10 per cent.

Some of these so-called mild diseases have been investigated at the East Malling research station, Kent, England, and nurserymen in Amer-

ica may have an interest in the results, as it seems probable that the diseases have found their way, through plant introductions, to wherever stone and pome fruits are grown. Nurserymen are primarily concerned with the economic returns for their investment and labor; as profits come from satisfied customers, any improvement in nursery trees that can be passed on to fruit growers is a good investment. If commercial growers cannot trust the quality of the nurserymen's product, they will be forced to raise their own trees, as some are now doing in Europe.

Aiding the Orchardist

The nurseryman can do nothing to prevent infection's spreading into orchards, as the phony peach virus is carried from wild plum and the "X" disease virus from chokecherry. But he can help the fruit grower to exclude the viruses which are dispersed mainly by the propagation of infected scion or stocks and which

seem to have limited, if any, means of spread into orchards. These viruses, causing no leaf symptoms in most commercial varieties, are dispersed by such practices as top-working scions of new varieties onto established trees and then using them to supply scion wood for further propagation. Because all viruses are graft-transmissible, the new scion wood will be infected with any that may be in the established trees. Re-grafting rootstocks has the same results; viruses can be transmitted to stocks from scion buds that fail and will be transmitted to any scions that are later grafted to these stocks. If trees are held in the nursery row for two or more years, some virus spread along the row may occur through natural root grafts.

These dangers are appreciated by those nurserymen who have taken the precaution of establishing scion blocks of virus-tested trees to supply their scion wood. Besides simplifying the collection of scion wood,

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EFFECT OF VEIN YELLOWS ON BEURRE HARDY

1ST. YR. GROWTH FROM GRAFTS ON QUINCE A

MEAN PER PLANT (CMS.)	HEALTHY CLONE	CLONE WITH VEIN YELLOWS
HEIGHT	133	101
GIRTH	4	3
LENGTH BRANCHES	146	56
NO BRANCHES	7	4

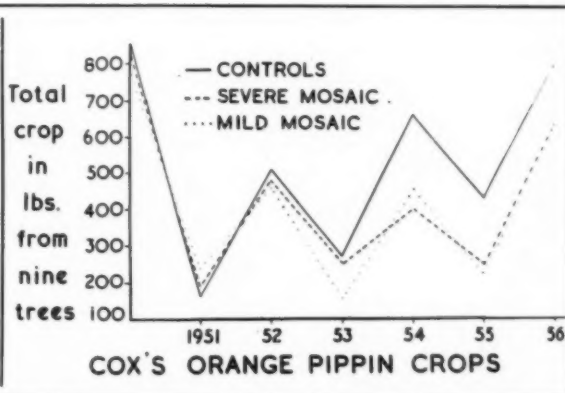


Table I, left: The reduction in the growth of nursery pear trees caused by virus infection. Figure 2, right: The effect on the yield of 25-year-old dwarf trees infected in 1950-1951 with two strains of apple mosaic virus.

Soil Conservation Use Upgrades Nursery Stock

By L. E. Bullard and F. L. Paulson

U.S.D.A. Soil Conservation Service, St. Paul, Minn.

The Bailey brothers, nurserymen near St. Paul, Minn., have found soil conservation practices aid in producing higher-grade nursery stock. Terraces, waterways, contouring, crop rotations and green manure crops are among the soil conservation measures they have successfully adapted to nursery production.

"Since we established the soil and water conservation practices, we find we get one grade better stock than before on nursery stock," Vincent Bailey announced recently. "More than a third of the stock is growing to the larger sizes. In three years we get growth that formerly took four years, and our survival record has been better."

Vincent and his brother, Gordon, have operated the J. V. Bailey Nurseries, in Washington county, just half a mile from St. Paul, since taking the business over from their father, J. V. Bailey, in 1943. They have more than 400 acres in nursery stock all the time, much of it rolling land with silt loam soils.

Nursery Crops Deplete Soil

As every nurseryman knows, nursery stock production is hard on land. It is intensive land use. Most farmers think of corn or soybeans as soil-depleting crops, and nursery planting demands even more from the soil than does corn. The land is in culti-

vation almost continuously. There is little opportunity to put back fertility in the form of grasses and legumes. Constant cultivation lowers the land's resistance to the pounding of falling raindrops, and soil erosion naturally follows, particularly if the land has any slope. In addition, every time an evergreen is sold, a ball of soil goes with it; so even without erosion, the topsoil is gradually decreased.

It was apparent to the Baileys that soil erosion and lowering fertility were becoming serious problems at their nursery. They had been forced to abandon one 20-acre field—one that had produced good stock for more than 15 years — because of severe sheet and gully erosion.

In 1945 the Baileys decided to do something about this problem and called on the supervisors of the Washington county soil conservation district. Francis Paulson, work unit conservationist, United States soil conservation service, Stillwater, went over the farm with the Baileys. He had a soil survey made that showed more specifically the character of the soils and how they could best be utilized in the light of their depth, slope, amount of erosion and other pertinent physical features.

Mr. Paulson and the Bailey brothers then worked up a conservation plan for the nursery land. They

planned for terraces on the sloping land, with grassed waterways for terrace outlets. As new planting was laid out, it was done on the contour. And crop rotations that included grass and legumes were worked out.

Terrace Construction

The contouring and terracing were drastic changes in the nursery operation, and before putting this part of the plan into effect, Vincent Bailey, who handles the field operations, and his field foreman, Carl Johnson, made a trip to Shenandoah, Ia., to see how nursery operations with terraces and contouring would work out. What they saw convinced Mr. Bailey that the system was practical and that it could be used at the Bailey nursery.

They built their first terraces, five in number, in 1946, doing the entire job with their own breaking plow. The weather gave them a good chance to see what they had accomplished when a heavy rain came just after these first terraces were finished. There was little erosion on the terraced field. On a field right next to the terraced one, gullies from six to eight inches deep were gouged out by the heavy runoff.

The Baileys have built 20 miles of terraces since that first terracing job was completed in 1946. They have established and seeded 7,200 linear feet of terrace outlet and an additional 1.6 miles of grass waterway in an unterraced field that does not handle terrace water.

A concrete drop outlet was constructed at the head of a large raw gully chosen as a drain for the terraces. This structure drops the water 20 feet and now protects the head of the gully from further cutting. Other drop structures are planned on two

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Left, contour planting on terraced land of the J. V. Bailey Nurseries at Newport, Minn.; right, Vincent Bailey, one of the owners of the nursery, observes a feature in the terrace construction pointed out by Francis Paulson, soil conservationist.

Connecticut Short Course

The Future of Our Industry

Reported By Kenneth Bradley

At the sixth nurserymen's short course held at the University of Connecticut, Storrs, January 22 and 23, Milford Lawrence, H. V. Lawrence, Inc., Falmouth, Mass., discussed "The Future of Our Industry," first briefly reviewing some of the noteworthy scientific achievements of the past in the plant world. Mr. Lawrence stated that he believes the outlook for the nursery industry is extremely favorable, particularly for those who like the field enough to work hard in it. He urged nurserymen to utilize all previously gained knowledge in their planning.

Among the problems with which Mr. Lawrence feels nurserymen will have to cope are competition; inflation; mass production; more insects and diseases, and the inevitable whims of nature, such as droughts, hurricanes and ice storms. Although some competition within the field may be encountered, he feels it will come mainly from other industries which are endeavoring to get a bigger percentage of the consumer's dollar. In regard to effects of mass production in the nursery industry, Mr. Lawrence does not think the small nursery will be forced out of business, because there is always an opportunity for the small operator who does quality work.

Future Nursery Supply

Basing his remarks on the supposition that the industry will continue to be governed primarily by the economic laws of supply and demand, Mr. Lawrence next outlined some of the possible contributions relative to supply. For a supply of new plant introductions, he looks for achievements such as a continued improvement in existing types through hybridization and development of plants selectively grown and developed for specific environments, plants with new or lengthened periods of flower beauty or fruit production, plants with still greater disease resistance and plants that will mature faster and have improved growth.

He also pointed out the probability of a better supply due to new methods of successful propagation, new products to control weeds, new sources of heat and power that will be less costly and more reliable

and new methods of shipping and storing nursery plants.

Regarding a demand for nursery products in the future, Mr. Lawrence pointed out that there are many physical and economic factors to be considered. Among those of a physical nature are the forecast that 2,000,000 homes per year will be needed by 1961, with even more needed later; the increasing realization of the importance of good industrial and institutional landscaping; the tremendous growth of such recreational areas as parks, playgrounds, marinas, watersheds, airports and forests, with more people seeking and finding places of beauty, and the highway programs on a local, state and national level requiring the use of innumerable plants for beautification and safety as well as noise, glare and erosion control.

At this point, Mr. Lawrence reminded the nurserymen that the concept of minimum maintenance should be added to the conventional description of good landscaping as being the production of maximum usefulness and maximum beauty.

Factors Affecting Demand

Mr. Lawrence mentioned five economic factors affecting future demand for nursery stock. The first was that landscaping is an investment in good real estate, in which the dollar value keeps pace with inflation. Another was that the demand for new and renovated homes is still increasing. He remarked upon the theory that taxes will be lower a few years hence, as will the cost of living, because of cheaper power, food and transportation and that rising incomes will enable more people to pay for quality services.

With more leisure time, due to a shorter work week for nearly everyone, still more persons will join the ranks of gardeners. Increased longevity makes for longer use of a home by the same persons, which increases the demand for single family homes with more landscaping.

Other factors affecting the future demand for nursery products are a greater realization of the importance of environment; the constant human desire for change; the development of hobbies; the love of and pride in a home, and a steadily increasing

appreciation of beauty of every type, and particularly of the beauties of nature and the plant world.

As preparation for this future business, Mr. Lawrence suggests that nurserymen continue to learn all they can, that they keep abreast of the times, become better managers, watch budget expenditures so as not to overexpand, keep their stock and place of business clean, know their stock and thus advise wisely, advertise and publicize truthfully, price adequately, give full value and guarantee their stock in a realistic manner.

TRAINING PERSONNEL

A. I. Mann, assistant dean of the college of agriculture at the University of Connecticut, discussed the question, "How Can We Meet the Needs of the Industry for Trained Personnel?" at the sixth annual Connecticut nurserymen's short course at Storrs, January 22.

In relating his personal concern in the matter of enrollment of students in universities, Mr. Mann said that, although college enrollments as a whole have increased tremendously and will continue to do so, enrollments in colleges of agriculture actually are on the decline.

He cited United States enrollment statistics that show that in 1948 there were over 45,000 students enrolled in colleges of agriculture throughout the nation, while by 1957 there were only 33,500. In the state of Connecticut in 1948, there were 379 students studying agriculture, whereas this year there are only 232 students in the college of agriculture. He has noted a similar downward trend in the other New England colleges, among which Connecticut is third in enrollment, Maine being first, and Massachusetts second.

Mr. Mann then posed the questions: Why is this happening, and what can we do about it? One reason cited was that there is insufficient information of the correct kind being circulated among prospective students. He added that the current stress on the shortages of engineers and scientists has overshadowed the fact that agriculture, in all of its

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Growers' Talks Highlight Short Course

Reported by Kenneth Bradley

ROOTING UNDER PLASTIC

At the recent Connecticut nurserymen's short course at the University of Connecticut, Storrs, Martin Van Hof, Rhode Island Nurseries, Newport, R. I., spoke on "Propagation under Plastic." In discussing current experimental practices with plastics at the Rhode Island Nurseries, Mr. Van Hof reviewed his experiences during the past four years. Of special interest to the nurserymen was his description of the construction and operation of the plastic-covered outdoor beds the firm has used for propagating summer softwood cuttings during the past two years.

Each bed is six feet wide and about 100 feet long. For the ends of the bed, 8 or 10-inch boards were nailed to stakes driven into the ground. Since these boards serve only to support the plastic, Mr. Van Hof mentioned that it might be cheaper to use a 1x2-inch board raised to the desired level.

Stressing the importance of careful preparation of the soil in the beds, Mr. Van Hof stated that he prefers a mechanical hoe to a tiller for this purpose. Otherwise, hand spading will suffice. Next, the bed is raked as level as possible, and the soil is pressed down with a wooden tamper or a roller. At night, the prepared bed is covered with tar paper or discarded plastic to protect it against rain or digging by animals.

Insertion Method

Soft cuttings, six to 10 inches long, depending upon the variety, are inserted into the rooting soil in an unusual manner, in order to prevent compaction. The men doing the sticking sit on a plank placed across the frame and use a footboard. A pointed iron dibble about one quarter of an inch thick and eight inches long is used to make the hole for the cutting and to tighten it at the base with a slanting movement.

When a 4-foot section of the bed has been completed, the cuttings are watered to the point of flooding and are then given temporary protection from wilting by a 4x7-foot section of lath shade covered with burlap, which is kept damp. When four of these sections (16 feet) of bed area have been filled, preparations are made to cover that much of the bed with plastic. A shallow trench is dug just outside the end and sides of

the bed, and the shades and burlap are removed.

Next four 2x2's, two feet long, are spaced four feet apart in the center of the bed and are driven into the soil to a depth of eight inches. A board measuring one inch by two inches by sixteen feet is nailed on top of these supports forming a ridge-pole for the plastic along the center of the bed. This 16-inch center height has proved to be best for providing the correct humidity. All sharp corners are padded to prevent tearing the plastic, which is unrolled over the structure. One side of the plastic is laid in the trench, covered with soil and tamped down. Next, the plastic is pulled tight across the frame and fastened with soil in the opposite trench.

Shading is accomplished by placing the lath sections about two or three inches above the center ridge. Since the plastic traps heat, the wooden shades are especially constructed, with the lath spaced only one quarter of an inch apart. The extra foot of the 7-foot lath sections allows enough additional length so that the shades protrude about six inches beyond the edges of the bed on each side to rest on runners, which are T-shaped metal rods driven into the soil. This overhang also provides shade for those cuttings near the edges of the bed. This procedure continues until the entire frame is filled.

Grouping Cuttings

The plastic used in covering these beds is a 4-mil polyethylene, which comes in rolls 10½ feet wide and 100 feet long and is used only one year. Through experience, Mr. Van Hof has learned that it is a good practice to group cuttings of those varieties that root in the same length of time. If this is impossible, a bed may be sectioned off by bringing the plastic down to the soil medium, thus forming a sealed wall, to separate varieties which take varying lengths of time to root.

One should not attempt to grow slow-rooting plants, such as magnolia and viburnum varieties, in the same bed with faster-rooting plants, such as weigela, deutzia, forsythia and hydrangea. Once the frames are closed, the plastic covers should not be removed for at least two and one-half to three weeks. If, after this length of time, it is discovered that

the tops of the cuttings are too dry, one can be sure they were not watered sufficiently when originally set out.

After the cuttings begin to root, Mr. Van Hof recommends giving them air by opening part of the flap on one side of the plastic covering and letting it hang down, thus allowing a circulation of air without drying the cuttings too much. After about two days, the plastic is rolled up on this side and tucked between the lath shade and its supporting metal runners.

At this time, additional watering is necessary. He noted that fungus may attack the cuttings at this stage of their development if they do not have sufficient air. The plastic is removed entirely and the lath replaced after three and one-half to five weeks, after the cuttings have been hardened off.

Rooting Rhododendrons

Mr. Van Hof continued with a detailed description of the rooting of rhododendrons, which are stuck in a greenhouse, the glass of which has been given a light application of shade. After the cuttings are well callused, the greenhouse is dressed on the inside with some discarded, 4-mil plastic. (If plastic is purchased especially for this operation, Mr. Van Hof recommends a 1½ or 2-mil thickness.) This practice hastens rooting because it keeps the humidity higher, with only one daily watering required.

Mr. Van Hof then discussed the comparative costs of coldframe propagation under glass and plastic, the latter obviously being cheaper from the standpoint of initial capital outlay and labor, since frequent syringing is virtually eliminated in plastic-covered beds. He noted that it is wise to replace the plastic every year, to avoid the occurrence of splits and cracks. The leftover sheets have many practical uses in the general nursery operation.

In a discussion of the construction of a polyethylene greenhouse, built to University of Kentucky specifications, Mr. Van Hof noted that an outside layer of 4-mil and an inside layer of 1½-mil plastic, with a 2-inch air space between, are advisable and said that a sufficient number of ventilators should be included to control the heat in early spring. He has not

[Continued on page 124]

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COMING EVENTS

MEETING CALENDAR

April 10 and 11—Holly Society of America, annual meeting, University of Delaware, Newark, Del.

May 21 to 24—Western chapter, National Shade Tree Conference, Disneyland hotel, Anaheim, Calif.

May 22 to 24—Florida Nurserymen and Growers Association, annual convention, Golden Gate hotel, Miami Beach, Fla.

May 26 to 28—Short course for Texas nurserymen, Agricultural and Mechanical College of Texas, Memorial Student Center, College Station, Tex.

June 1 to 3—Alabama Nurserymen's Association, annual convention, Hotel Stafford, Tuscaloosa, Ala.

June 4 and 5—California Association of Nurserymen, annual refresher course, California State Polytechnic College, San Luis Obispo, Calif.

June 8 to 10—Georgia State Nurserymen's Association, annual convention, Bon Air hotel, Augusta, Ga.

June 18 and 19—Missouri State Nurserymen's Association, annual meeting and short course, University of Missouri, Columbia, Mo.

June 25 and 26—Illinois State Nurserymen's Association, short course, Morton Arboretum, Lisle, Ill.

July 9—Connecticut Nurserymen's Association, summer meeting, Lake Compounce, Bristol, Conn.

July 19 to 24—American Association of Nurserymen, annual convention, Statler-Hilton hotel, Dallas, Tex.

August 6 to 8—West Virginia Nurserymen's Association, summer meeting, West Virginia University campus, Morgantown, W. Va.

August 20—New England Nurserymen's Association, summer meeting, Adams Nurseries, Westfield, Mass.

August 25 to 29—National Shade Tree Conference, Vanderbilt hotel, Asheville, N. C.

September 16 to 18—California Association of Nurserymen, annual convention, Rickey's Studio Inn, Palo Alto, Calif.

HOLLY SOCIETY PROGRAM

The program for the 24th annual meeting of the Holly Society of America, to be held April 10 and 11 at the University of Delaware, Newark, has been announced as follows:

APRIL 10

1:30 p. m.—Tour of holly research project.

6:30 p. m.—Banquet.

8:00 p. m.—"Adventure with Holly," by Mrs. F. Leighton Meserve, Holly-By-Golly, St. James, L. I., N. Y.

APRIL 11

9:30 a. m.—Committee reports and business meeting.

11:30 a. m.—"Gibberellic Acid on Holly," by Dr. William E. Snyder, department of horticulture, Rutgers University, New Brunswick, N. J.

12:00 noon—Lunch.

1:00 p. m.—"Holly Orcharding in the

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•	Capistrano
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•	Golden Masterpiece
•	Good News
•	Grande Duchesse Charlotte
•	Helen Traubel
•	Lemon Chiffon
•	Living Rose
•	Lowell Thomas
•	Mirandy
•	New Yorker
•	Nocturne
•	Peace
•	Pink Favorite
•	Queen Elizabeth
•	Rose of Freedom
•	Roundelay
•	Sutter's Gold
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•	The Duke

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•	Carroussel
•	Encore
•	Fashion
•	Goldilocks
•	Jiminy Cricket
•	Ma Perkins
•	Pinkie
•	Pinocchio
•	Red Pinocchio

Patented Floribundas— Continued

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•	Vogue
•	World's Fair

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•	Cl. Pinkie

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•	American Beauty
•	Ami Quinard
•	Angel's Mateu
•	Autumn
•	Christopher Stone
•	Condesa de Sastago
•	Countess Vandal
•	Crimson Glory
•	Duquesa de Penaranda
•	Eclipse
•	Editor McFarland
•	Ena Harkness
•	Etoile de Hollande
•	Frau K. Druschki
•	Girona
•	Golden Rapture
•	Heinrich Wendland
•	Joanna Hill
•	K. A. Viktoria
•	Lulu
•	Margaret McGredy
•	Mme. Ed. Harriot
•	Mme. Jules Bouche
•	Mrs. Charles Bell
•	Mrs. E. P. Thom

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•	McGredy's Scarlet
•	McGredy's Yellow
•	Nigger Boy
•	Picture
•	Pink Dawn
•	Poinsettia
•	President Hoover
•	Radiance
•	Red Hoover
•	Red Radiance
•	Red Talisman
•	Shining Star
•	Signora
•	Sister Therese
•	Snowbird
•	Souv. de Cl. Pernet
•	Talisman
•	Texas Centennial
•	The Doctor
•	Virgo
•	Will Rogers

Nonpatented Babies

•	Dick Koster
•	Gloria Mundi
•	Orange Triumph

Nonpatented Floribundas

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•	Charlie McCarthy
•	Donald Prior
•	Eise Poulsen
•	Eutlin
•	Floradora
•	Frensham
•	Garnette
•	Improved Lafayette
•	Poulsen's Bedder
•	Red Ripples
•	Rosa Elfe
•	Snowbank
•	The Fairy

Nonpatented Climbers

•	Cl. American Beauty
•	Cl. City of York
•	Cl. Doubleblooms
•	Cl. Etoile de Hollande
•	Cl. Gardenia
•	Cl. Mary Wallace
•	Cl. New Blaze
•	Cl. Paul's Lemon Pillar
•	Cl. Silver Moon
•	Cl. Talisman
•	Cl. Temptation
•	Cl. White Dawn

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24 to 30 ins.	\$1.00
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12 to 15 ins.	1.00
15 to 18 ins.	1.25
18 to 24 ins.	1.60
*24 to 30 ins.	2.00

Arborvitae, orientalis Blue Cone	
*18 to 24 ins.	1.00
*24 to 30 ins.	1.35
*30 to 36 ins.	1.60
3 to 4 ft.	2.20

Arborvitae, orientalis Bonita	
15 to 18 ins.	1.25
18 to 24 ins.	1.60
24 to 30 ins.	2.00
30 to 36 ins.	2.50

Arborvitae, orientalis Excelsa	
*30 to 36 ins.	1.50
3 to 4 ft.	2.00
*4 to 5 ft.	3.00
*5 to 6 ft.	4.00

Arborvitae, orientalis fruitlandi (Dark Green Berckmans)	
18 to 24 ins.	1.50
24 to 30 ins.	1.75
30 to 36 ins.	2.25

Arborvitae, orientalis newarkii	
*24 to 30 ins.	1.25
*30 to 36 ins.	1.50
*3 to 4 ft.	2.00
4 to 5 ft.	3.00
*5 to 6 ft.	4.00

Arborvitae, American Dark Green	
24 to 30 ins.	1.50
30 to 36 ins.	2.25
3 to 4 ft.	3.00
4 to 5 ft.	3.75

Arborvitae, American Pyramidal	
24 to 30 ins.	1.50
3 to 4 ft.	3.00
4 to 5 ft.	3.75

Arborvitae, American compacta erecta <i>globosa</i>	
18 to 24 ins.	\$1.75
24 to 30 ins.	2.25

Arborvitae, American Globe (<i>globosa</i>)	
12 to 15 ins.	1.25
15 to 18 ins.	1.60
18 to 24 ins.	2.00
*24 to 30 ins.	2.50

Cedrus atlantica	
*2 to 3 ft.	1.50
*3 to 4 ft.	2.50

Cedrus deodara	
*2 to 3 ft.	1.50
*3 to 4 ft.	2.50
4 to 5 ft.	3.50
5 to 6 ft.	5.00

Cypress, Blue Lawson	
30 to 36 ins.	1.75

Chamaecyparis Cyano Viridis	
18 to 24 ins.	1.25
24 to 30 ins.	1.75
30 to 36 ins.	2.00

Juniper, Andorra	
15 to 18 ins.	1.20
18 to 24 ins.	1.60

Juniper, hetzi glauca	
15 to 18 ins.	1.25
18 to 24 ins.	1.75
24 to 30 ins.	2.25

Juniper, chinensis pfitzeriana Many times sheared, very heavy	
12 to 15 ins.	1.10
15 to 18 ins.	1.50
18 to 24 ins.	2.00
24 to 30 ins.	2.75
30 to 36 ins.	3.50

Juniper, pfitzeriana Blue	
15 to 18 ins.	1.50
18 to 24 ins.	2.00

Juniper, pfitzeriana compacta	
12 to 15 ins.	1.10
15 to 18 ins.	1.50
18 to 24 ins.	2.00
24 to 30 ins.	2.75
*30 to 36 ins.	3.50

Juniper, pfitzeriana Golden	
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2 to 3 ft.	
3 to 4 ft.	

Juniper, excelsa stricta	
15 to 18 ins.	
18 to 24 ins.	
24 to 30 ins.	

Juniper, fastigiata	
24 to 30 ins.	

Juniper, virginiana repandens	
15 to 18 ins.	
18 to 24 ins.	
24 to 30 ins.	

Juniper, sabinia	
12 to 15 ins.	
15 to 18 ins.	
18 to 24 ins.	

Juniper, sabinia vonehron	
15 to 18 ins.	
18 to 24 ins.	
24 to 30 ins.	

Juniper, scopulorum kenyonii	
*18 to 24 ins.	
*24 to 30 ins.	
*30 to 36 ins.	

Juniper, sylvestris	
*2 to 3 ft.	
*3 to 4 ft.	
4 to 5 ft.	

Juniper, virginialis	
15 to 18 ins.	
18 to 24 ins.	
*24 to 30 ins.	

Juniper, virginiana burki, well-sheared	
*2 to 3 ft.	

Juniper, virginiana canaerti, well-sheared	
2 to 3 ft.	
3 to 4 ft.	
4 to 5 ft.	
*5 to 6 ft.	

Juniper, virginiana glauca	
*2 to 3 ft.	
3 to 4 ft.	

Pinus nigra (Austrian Pine)	
2 to 3 ft.	
*3 to 4 ft.	

Pinus strobus (White Pine)	
2 to 3 ft.	

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5 to 6 ft.	5.00
<i>Ilex opaca Hume No. 2</i>	
2 to 3 ft.	2.00
3 to 4 ft.	3.00
4 to 5 ft.	4.00
5 to 6 ft.	5.00
<i>Ilex opaca Reynolds</i>	
2 to 3 ft.	2.00
3 to 4 ft.	3.00
<i>Ilex vomitoria</i> , well-sheared, very good	
18 to 24 ins.	1.00
24 to 30 ins.	1.50
30 to 36 ins.	2.00
3 to 4 ft.	2.50
4 to 5 ft.	3.00
5 to 6 ft.	4.00
<i>Ilex vomitoria nana</i> , very dwarf type	
12 to 15 ins.	1.25
<i>Ilex vomitoria Pride of Houston</i> , heavily sheared	
18 to 24 ins.	1.00
24 to 30 ins.	1.50
30 to 36 ins.	2.00
3 to 4 ft.	2.50
4 to 5 ft.	3.00
<i>Illicium anisatum</i>	
2 to 3 ft.	1.25
<i>Jasmine, floridum</i>	
15 to 18 ins.	1.00
18 to 24 ins.	1.25
24 to 30 ins.	1.50
<i>Ligustrum lucidum</i> (Black Wax)	
*24 to 30 ins.	1.00
*30 to 36 ins.	1.25
<i>Ligustrum lucidum</i> , Griffin type	
24 to 30 ins.	1.00
30 to 36 ins.	1.25
<i>Ligustrum lucidum</i> (Suwannee River)	
15 to 18 ins.	1.75
18 to 24 ins.	2.25
24 to 30 ins.	2.75
<i>Laurocerasus caroliniana</i> (Cherry Laurel), heavily sheared	
2 to 3 ft.	1.25
3 to 4 ft.	1.50
4 to 5 ft.	2.50
5 to 6 ft.	3.50
6 to 8 ft.	5.00
<i>Loropetalum chinense</i> (Texas Fringe)	
18 to 24 ins.	1.25
24 to 30 ins.	1.50
30 to 36 ins.	2.00
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2 to 3 ft.	2.00
3 to 4 ft.	3.00
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5 to 6 ft.	5.00
6 to 8 ft.	7.50
<i>Magnolia glauca</i>	
2 to 3 ft.	1.50
3 to 4 ft.	2.50
4 to 5 ft.	3.50
5 to 6 ft.	5.00
6 to 8 ft.	7.50
<i>Nandina domestica</i>	
15 to 18 ins.	.80
18 to 24 ins.	1.00
24 to 30 ins.	1.25
30 to 36 ins.	1.50
3 to 4 ft.	2.00
<i>Osmanthus fortunei</i>	
*18 to 24 ins.	1.25
24 to 30 ins.	1.50
<i>Viburnum burkwoodi</i>	
18 to 24 ins.	1.50
24 to 30 ins.	1.75
30 to 36 ins.	2.00

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Liners—Potted

* <i>Chamaecyparis Cyano Viridis</i> , 3-in. pot.	\$0.12 1/2
<i>Elaeagnus simoni</i> , 3-in. pot.	.12 1/2
<i>Ilex fosteri</i> No. 2, 2 1/2-in. rose pot.	.17 1/2
<i>Illicium anisatum</i> (Spring), 2 1/2-in. pot.	.12 1/2
<i>Ilex crenata convexa</i> , 2 1/4-in. rose pot.	.15
<i>Ilex crenata repandens</i> , 2 1/4-in. rose pot.	.15
<i>Ilex opaca East Palatka</i> , 2 1/2-in. rose pot.	.17 1/2
<i>Ilex opaca howardi</i> , 2 1/2-in. rose pot.	.17 1/2
<i>Ilex opaca Hume No. 2</i> , 2 1/2-in. rose pot.	.17 1/2
<i>Ilex vomitoria femina</i> , 2 1/4-in. rose pot.	.12 1/2
<i>Ilex vomitoria Pride of Houston</i> , 2 1/4-in. rose pot.	.12 1/2
<i>Laurocerasus caroliniana</i> , 2 1/2-in. pot.	.12 1/2
<i>Lonicera yunnanensis</i> , ready for cans, 4-in. pot.	.17 1/2
<i>Nandina domestica</i> , 2 1/4-in. rose pot.	.10
<i>Thuja occidentalis nigra</i> , 2 1/4-in. rose pot.	.15
<i>Thuja orientalis Excelsa</i> , 2 1/4-in. rose pot.	.15
<i>Thuja orientalis newarkii</i> , 2 1/4-in. rose pot.	.15
<i>Thuja orientalis Bonita</i> , 2 1/4-in. rose pot.	.15

Liners—Bed-Grown

<i>Euonymus alatus compactus</i> , 2-yr., 8 to 10 ins.	.15
<i>Ilex rotundifolia</i> , 2-yr., sheared, 8 ins.	.12 1/2
<i>Jasminum floridum</i> , 1-yr.	.12 1/2
<i>Euonymus</i> , small-leaved, spreading, 1-yr., 8 to 12 ins.	.10

Liners—Field-Grown

<i>Juniper, hetzi glauca</i> , 1-yr., 6 to 8 ins.	.10
<i>Juniper, hetzi glauca</i> , 1-yr., 8 to 12 ins.	.12
<i>Juniper, excelsa stricta</i> , 1-yr., 6 to 8 ins.	.10

Transplants—from field rows

<i>Ilex rotundifolia</i> , TT, 3-yr., 8 to 10 ins.	.25
<i>Ilex rotundifolia</i> , TT, 4-yr., 12 to 15 ins.	.35
<i>Juniper, Pfitzer</i> , T, 2-yr., 10 to 12 ins.	.35
<i>Juniper, hetzi glauca</i> , T, 2-yr., 10 to 12 ins.	.30

DECIDUOUS TREES,
B&B

<i>Cornus florida</i> (White Dogwood)	
2 to 3 ft.	\$1.00
3 to 4 ft.	1.50
4 to 5 ft.	2.00
5 to 6 ft.	2.75
6 to 8 ft.	4.00
<i>Cornus florida rubra</i> (Pink-Flowering Dogwood)	
24 to 30 ins.	1.50
30 to 36 ins.	2.00
3 to 4 ft.	3.00
<i>Magnolia soulangeana</i> (Pink Magnolia)	
3 to 4 ft.	2.75
4 to 5 ft.	3.50
5 to 6 ft.	4.50

GALLON-SIZE
CONTAINER-GROWN
STOCK

80c each

<i>Arboretum, Berkman</i>	
<i>Arboretum, Blue Cone</i>	
<i>Juniper, pfitzeriana</i>	
<i>Juniper, pfitzeriana compacta</i>	
<i>Juniper, excelsa stricta</i>	
<i>Juniper, fastigiata</i> (Improved Irish)	
<i>Juniper, hetzi glauca</i>	
<i>Juniper, sabina</i>	
<i>Magnolia grandiflora</i>	
<i>Ilex burfordi</i>	
<i>Ilex rotundifolia</i>	
<i>Ilex convexa</i> (bullata)	
<i>Ligustrum lucidum</i>	
<i>Pyracantha formosana</i> , red	
<i>Pyracantha lalandi</i> , orange	
<i>Gardenia fortunei</i>	

ARTWRIGHT NURSERIES,

COLLIERVILLE,
TENN.



Brillion LANDSCAPE SEEDER



Close-coupled to your tractor, the Brillion works close to fences, building foundations . . . moves in and around corners and odd-shaped lots easily.



Instant seed shut-off makes seeding large home projects more practical. The Brillion seeds right up to drives and walks—cuts off seed delivery quickly, positively.



Shallow planting depth of $\frac{1}{4}$ " is controlled by closely spaced roller wheels. University tests show seed germination is best at this depth. The wheels also firm the soil.

40 times faster than hand seeding frees 4 men for other work

Time and labor economies come fast with a Brillion Landscape Seeder. One man . . . one tractor . . . one Brillion do the work of 5 hand laborers—and finish up to 40 hours work in just one.* Brillion gives you exclusive uniform seeding (all seeds $\frac{1}{4}$ " deep in a firm seedbed). And results are exceptionally good. Sturdy, near-perfect stands, even in dry spells when hand sowing often fails. This is a precision machine

that lasts for years, piling up savings on time and seed to make the cost actually low. Straight pull or 3-point hitch models . . . 5' 4" size. Contact your Brillion dealer.

*Write for owners' reports.

Brillion
IF BRILLION MAKES IT,
IT **MUST** BE GOOD

BRILLION IRON WORKS, INC., Brillion, Wis., Dept. 5G-17-4.

Please send me prices and literature on the Brillion Landscape Seeder.

Write your name and address in the margin.

Pacific Northwest," by Alfred Teufel, Portland, Ore.

2:00 p. m.—"Soil Management with Holly," by Wallace A. Mitcheltree, Rutgers University.

2:45 p. m.—"Propagating Holly," by Dr. Charles W. Dunham, horticulture department, University of Delaware.

3:30 p. m.—Adjournment.

CONNECTICUT MEETING

The date for the summer meeting of the Connecticut Nurserymen's Association has been set as July 9, it is announced by Erwin W. Whitham, secretary of the association. Lake Compounce, Bristol, Conn., which proved a popular setting for last year's meeting, has been chosen again as the site of the event.

WEST VIRGINIA DATES

Announcement has been made of the dates for the summer meeting of the West Virginia Nurserymen's Association as August 6 to 8. Meetings will be held on the campus of the West Virginia University, at Morgantown.

PLANS FOR NEW ENGLAND

Adams Nursery, Inc., Westfield, Mass., will act as host for the 1958 summer meeting of the New England Nurserymen's Association. The meeting will take place at the nursery August 20.

CALIFORNIA CONVENTION

The California Association of Nurserymen announces that its annual convention will be held at Rickety's Studio Inn, Palo Alto, Calif., September 16 to 18. According to the announcement, the convention committee has made preliminary arrangements and is now working on the details of the program.

LONG ISLAND SHOW

[Continued from page 14]

& Perkins Co., Newark, N. Y., with its usual fine display of roses, included many of the more popular and new varieties in an informal garden to win the third-place cup in this class.

Homestead Gardens, Rockville Centre, L. I., won the first-place silver cup for class V gardens of 300 square feet. Their garden was a natural corner planting, which featured a farm wall and a split rail fence. Birch, laurel, pieris, juniper, daffodils and grape hyacinths completed an interesting display.

S. Scherer & Sons, Northport, L. I., took second place, with a waterfall and pool. A stream had

Malathion
cide; but
phosphate
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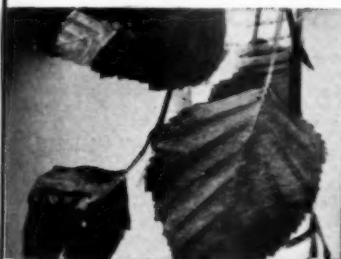
Now... a one-insecticide arsenal for ornamentals

**Malathion gives all-around protection;
stops resistant insects; offers safety in use.**

MALATHION solves the problem of what to use against which insect. It gives thorough, quick kills on practically all insects attacking flowers, shrubs, shade and fruit trees.

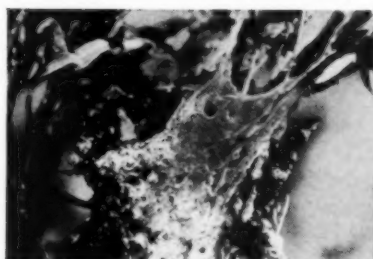


Aphids on rose



Birch leaf miner damage

Malathion is a phosphate insecticide; but unlike most of the other phosphates, it is *low* in toxicity to man and animals... makes safe handling easy for your staff. Respirators or protective clothing are not required. The



Webworm on lilac

U. S. Dept. of Agriculture calls malathion, "...one of the safest insecticides to handle," and the U. S. Public Health Service says, "...the toxicities of malathion (oral and through the skin) are less than those of DDT."

Because malathion's chemistry is different from the chlorinated insecticides, it controls DDT-resistant pests. For example, resistant strains of codling moth and leafhopper.



Mealybug on taxus



Codling moth injury



Thrips damage on gladiolus

Malathion comes in liquids, dusts and wettable powders. It's packaged under the brand names of over 100 well known manufacturers. Ask your regular supplier for the brands he carries.



FREE — for retail trade: Counter display shows pictures on this page in full color. Hands out free leaflets, displays the brand of malathion you sell. Only 18½ inches wide, punched for wall display. You can recommend malathion with confidence because it controls practically any insect problem your customers are likely to encounter. Write: American Cyanamid Company, Insecticide Department AN 3, 30 Rockefeller Plaza, New York 20, New York. Also available for professional use: Free leaflet giving rates, timing and a complete list of malathion's many uses.

EVERGREENS?

ARE YOU PREPARING TO MEET THE GREAT FUTURE DEMAND
FOREWARNED FOREARMED!
WILL YOU BE CAUGHT NAPPING?

"I think the necessity of being ready increases."

—Abraham Lincoln

— THIS FINE STOCK —

	Per 100	Per 1000
<i>Abelia grandiflora</i> (Glossy Abelia)		
*Pink flowers all summer, R.C.	\$ 8.00	\$ 64.00
<i>Abelia grandiflora</i> sherwoodii (Sherwood Dwarf Abelia)		
*Fine foliage, tiny flowers, R.C.	8.00	64.00
<i>Azalea amoena coccinea</i>		
Splendid dwarf, red flowers.		
*3 to 6 ins., once transplanted	17.00	136.00
<i>Azalea hinodegiri</i>		
Dwarf, compact, bright red.		
*3 to 6 ins., once transplanted	17.00	136.00
<i>Azalea maxwellii</i> (Maxwell Azalea)		
Superb evergreen, carmine-red.		
*6 to 9 ins., once transplanted	22.00	176.00
<i>Sherwood Cerise Azalea</i>		
A wonderful dwarf evergreen. Bright, clear cerise.		
*3 to 6 ins., once transplanted	17.00	136.00
<i>Sherwood Orchid Azalea</i>		
Flowers clear lavender. Hardy evergreen.		
*1 to 3 ins., once transplanted	14.00	112.00
<i>Sherwood Red Azalea</i>		
Compact dwarf and evergreen.		
*3 to 6 ins., once transplanted	17.00	136.00
<i>Berberis buxifolia nana</i> (Dwarf Magellan Barberry)		
*Fine compact dwarf, R.C.	10.00	80.00
<i>Berberis chenaultii</i> (Chenault Barberry)		
*Similar to verruculosa, R.C.	10.00	80.00
<i>Berberis darwinii</i> (Darwin Barberry)		
Deep green, glossy. Bright orange flowers.		
*9 to 12 ins., once transplanted	27.00	216.00
<i>Berberis julianae</i> (Wintergreen Barberry)		
*One of the best upright barberries, R.C.	12.00	96.00
<i>Berberis stenophylla</i> Irwinii (Irwin Barberry)		
Low-growing, yellow flowers.		
*3 to 6 ins., once transplanted	18.00	144.00
<i>Berberis triacanthophora</i> (Threespine Barberry)		
*Slender, arching branches, R.C.	12.00	96.00
<i>Buxus sempervirens</i> (Common Box)		
*Well-known hedge plant, R.C.	8.00	64.00
<i>Buxus sempervirens rotundifolia</i> (Round-leaved Box)		
*Stout branches, round leaves, R.C.	8.00	64.00
<i>Buxus semp. suff. albo-marg.</i> (Silveredge Dwarf Box)		
*Dwarf, silvery, R.C.	9.00	72.00
<i>Calluna vulgaris rubra</i> (Red Heather)		
*A brilliant display of flowering beauty, R.C.	8.00	64.00

<i>Cephalotaxus harringtonia fastigiata</i> (Plum Yew)	Per 100	\$12.00
*Remarkable columnar, yew-like tree, R.C.		
<i>Chamaecyparis lawsoniana cyano-viridis</i>		
*Lovely silvery dwarf. New, R.C.	12.00	
<i>Chamaecyparis pilifera filifera</i> (Thread Cypress)		
*A multitude of filaments, R.C.	12.00	
<i>Cotoneaster parneyi</i> (Parney Cotoneaster)		
*A great mass of red berries, R.C.	9.00	
<i>Daboecia polifolia</i> (Swedish Bell Heather)		
*Low-growing. Pink flowers, R.C.	8.00	
<i>Daboecia polifolia alba</i> (White Irish Bell Heather)		
*Nodding flowers of purest white, R.C.	8.00	
<i>Daboecia polifolia rosea</i> (Pink Irish Bell Heather)		
*Flowers are abundant, rosy-lavender, R.C.	8.00	
<i>Erica carnea</i> (King George)		
*Low-growing. Red flowers, R.C.	8.00	
<i>Erica carnea</i> (Sherwood Creeping Heath)		
*Low creeper. Flowers bright carmine-red, R. C.	8.00	
<i>Erica carnea</i> (Sherwood Early Red Heath)		
*An early red. Blooms in January, R.C.	8.00	
<i>Erica carnea</i> (Springwood White)		
*Fine low-growing heath. Flowers pure white, R.C.	8.00	
<i>Erica cinerea</i> (C. D. Eason)		
*Soft pink flowers, R.C.	8.00	
<i>Erica mediterranea hybrida</i> (Darley Heath)		
*Lavender, early, the hardiest, R.C.	8.00	
<i>Escallonia langleyensis</i> (Langley Escallonia)		
*Red flowers, fragrant foliage, R.C.	8.00	
<i>Euonymus radicans</i> (Wintercreeper)		
*Low procumbent shrub, rich green foliage, R.C.	8.00	
<i>Euonymus rad. arg.-marg.</i> (Silveredge Wintercreeper)		
*A variegated, low, procumbent shrub, R.C.	8.00	
<i>Euonymus radicans coloratus</i> (Purple-leaved Wintercreeper)		
A trailing evergreen, very hardy.		
*12 to 24 ins., twice transplanted	22.00	
<i>Euonymus radicans vegetus</i> (Big-leaved Wintercreeper)		
*A larger type of radicans, profuse growth, R.C.	8.00	
<i>Hypericum calycinum</i> (Aaron's-beard St.-John's-wort)		
*Thick ground cover, yellow flowers, R.C.	8.00	
<i>Hypericum patulum henryi</i> (Henry St.-John's-wort)		
*3 to 4 ft., yellow flowers, R.C.	8.00	
<i>Ilex aquifolium albo-marginata</i> (Silveredge English Holly)		
*Silvery foliage, red berries, R.C.	12.00	
<i>Ilex aquifolium angustifolia</i> (Narrow-leaved English Holly)		
*Beautiful slender tree, R.C.	12.00	
<i>Ilex aquifolium aureo-regina</i> (Golden Queen Holly)		
*Most beautiful golden holly, R.C.	20.00	
<i>Ilex aquifolium pyramidalis</i> (Pyramidal English Holly)		
*A great abundance of red berries, R.C.	12.00	
<i>Ilex crenata rotundifolia</i>		
*Dwarf, small leaves, R.C.	8.00	
<i>Ilex pernyi</i> (Perry Holly)		
*Dense foliage, prickly leaves, R.C.	10.00	

its beginning in a landscaped area and flowed progressively from one pool to another through a manicured expanse of lawn. Ed Sharrock's Nursery, Oceanside, L. I., carried off the third-place award with a modern design for the new homeowner concerned with a foundation planting. Plant materials used included hollies, yews, azaleas and flowering plums.

Small Gardens

An innovation of this year's show was the incorporation of class VI, gardens of 150 square feet. There is a need for ideas that can be used in small areas. It is the understanding of most landscape men that small areas present many problems. Peter C. Colgan, Hempstead, L. I., took

first-place honors in this class with a garden designed as a haven for birds. The Japanese black pines, gray birches, Japanese hollies, cotoneaster and tulips contributed much to a peaceful setting. Cor-Nell Landscape Service, East Meadow, L. I., and Hindla Wholesale Nursery, Bohemia, L. I., combined to build a modern 2-level patio garden of broad-leaved evergreens, with railroad ties as a retaining wall, for second place. A modern patio screen of plastic and bamboo added to the over-all picture as a backdrop for Japanese pieris in bloom. Ronald J. Schlick, of Eastern parkway, also received a second-place cup for his fine treatment of a walk leading to a rear garden. This, too, had a modern treatment of predominating pink

and white colors, with the walk finding its way through turf and laurel.

Educational Displays

Class VII was added to include educational and specialized exhibits. In addition to the garden that won the best-in-show award, the State University Agricultural and Technical Institute at Farmingdale had an exhibit constructed by the nursery management students, which featured an informal, natural, pine needle-covered rest area next to a woodland pool. The plants featured were rhododendrons, deciduous azaleas, pieris and other native plants. The Long Island Lighting Co. demonstrated how a rear garden could be planted properly within the easements of electric lines and utility

	Per 100	Per 1000
<i>Microcerasus zabeliana</i> (Zabel Laurel)		
Hardy, semidwarf and a good bloomer.		
*% to 9 ins., once transplanted	\$20.00	\$160.00
<i>Adiantum columbianum</i> (Labrador Tea)		
Dark green leaves, white flowers, lovely.		
*% to 9 ins., once transplanted	22.00	176.00
<i>Osmanthus delavayi</i> (Delavay Osmanthus)		
*Fragrant white flowers. Lovely, R.C.	9.00	72.00
<i>Osmanthus burkwoodii</i> (Burkwood Osmarea)		
*Fine foliage, white flowers, R.C.	9.00	72.00
<i>Myrsine terminalis</i> (Japanese Spurge)		
Evergreen and grows in dense masses.		
*1-yr. plants	9.00	72.00
<i>Myrica mucronata</i> , pink, white or red		
*Name your colors, R.C.	9.00	72.00
<i>Phillyrea decora</i> (Lance-leaved Phillyrea)		
*Elegant round-topped shrub. White flowers, R.C.	9.00	72.00

DID YOU KNOW?

That the *Arctostaphylos* (Manzanita) group has the unusual and remarkable faculty of hybridizing in the wild into all manner of interesting variations.

	Per 100	Per 1000
<i>Abies excelsa nidiformis</i> (Nest Spruce)		
Wonderful, dwarf, dark green, flattened globe.		
*6 to 9 ins., TT., B.R.	50.00	400.00
<i>Abies excelsa sherwoodii</i> (Sherwood's Multnomah Spruce)		
Beautiful, dwarf, irregular globe, New.		
*9 to 12 ins., TT., B.R., near specimens	73.00	
<i>Abies glauca conica</i> (Dwarf Alberta Spruce)		
Close, compact, narrow pyramid. In great demand.		
*6 to 9 ins., TT., B.R.	75.00	650.00
*9 to 12 ins., TT., B.R.	90.00	810.00
<i>Abies glauca densata</i> (Black Hills Spruce)		
A handsome hardy tree.		
*3 to 6 ins., once transplanted	9.00	72.00
<i>Abies pungens</i> (Colorado Spruce)		
One of the most desirable of the spruces.		
*12 to 15 ins., once transplanted, B.R.	20.00	160.00
<i>Abies japonica</i> (Japanese Pieris)		
*A magnificent shrub. White flowers, R.C.	9.00	72.00
<i>Pinus griffithii</i> (Griffith Pine)		
Sometimes called the blue pine. Rare.		
*% to 9 ins., once transplanted	14.00	112.00
<i>Pinus jeffreyi</i> (Jeffrey Pine)		
A rather open picturesque, spire-shaped conifer.		
*% to 12 ins., once transplanted	18.00	144.00
<i>Pinus mugho compacta</i> (Mugho Pine)		
A dense stout, dwarf evergreen.		
*4 to 9 ins., TT., B.R., near specimens	49.00	
*9 to 12 ins., TT., B.R., near specimens	65.00	
<i>Pinus pinea</i> (Stone Pine)		
Picturesque, bright green.		
*% to 9 ins., not transplanted	12.00	96.00
<i>Rhododendron intricatum</i> (Bluet Rhododendron)		
*Dwarf gem, tiny leaves, blue flowers, R.C.	12.00	96.00

	Per 100	Per 1000
<i>Taxus baccata</i> (English Yew)		
One of the finest of all hedge subjects.		
*9 to 12 ins., TT., B.R., hedge grade	\$41.00	
<i>Taxus baccata dovestoni</i> (Doveston Yew)		
*Dwarf cushion, very choice, R.C.	12.00	\$ 96.00
<i>Taxus baccata pendula</i> (Weeping English Yew)		
*Dark green, pendulous. Rare, R.C.	12.00	96.00
<i>Taxus baccata procumbens</i> (Prostrate English Yew)		
*Dwarf, compact, symmetrical, R.C.	10.00	80.00
<i>Taxus baccata repandens</i> (Spreading English Yew)		
*Choice, dark green spreader, R.C.	10.00	80.00
<i>Taxus bac. repandens aurea</i> (Gold Spreading English Yew)		
*Rare golden spreader, R.C.	12.00	96.00
<i>Taxus cuspidata</i> (Japanese Yew)		
One of the most satisfactory of dwarf evergreens.		
*9 to 12 ins., TT., B.R., hedge grade	49.00	
<i>Taxus cuspidata columnaris</i> (Columnar Yew)		
*Unusual irregular column, R.C.	10.00	80.00
<i>Taxus cusp. fastigiata aurea</i> (Gold Column Japanese Yew)		
*Dwarf, compact, very rare and choice, R.C.	12.00	96.00
<i>Taxus media hicksii</i> (Hicks' Yew)		
*Hardy, irregular column, R.C.	10.00	80.00
<i>Taxus</i> (name unknown). A dwarf golden globe which is brightest in winter.		
*Very fine and very scarce, R.C.	12.00	96.00
<i>Taxus</i> (name unknown)		
*Dwarf, light golden globe. Rare, R.C.	12.00	96.00
<i>Teucrium chamaedrys</i> (Chamaedrys Germander)		
*Low, heath-like, lavender flowers, R.C.	8.00	64.00
<i>Thuja occidentalis</i> (American Arborvitae)		
Makes fine low hedges or taller windbreaks.		
*3 to 4 ft., TT., B.R., hedge grade	97.00	
<i>Thuja occ. pyramidalis</i> (American Pyramidal Arborvitae)		
*Dense, beautiful column, R.C.	9.00	72.00
<i>Thuja occidentalis umbraculifera</i> (Umbrella Arborvitae)		
*Dwarf, dense, flattened globe, R.C.	9.00	72.00
<i>Viburnum davidi</i> (David Viburnum)		
*Popular dwarf with broad leaves, R.C.	12.00	96.00
<i>Vinca minor</i> (Common Periwinkle)		
Superlative evergreen ground cover, blue flowers.		
*1-yr. plants	8.00	64.00

— REFER TO OUR CATALOG FOR OTHER ITEMS —

Shipping charges prepaid on stock marked with an asterisk(*). No packing charge. T indicates once transplanted; TT, twice transplanted; B.R., bare-root; R.C., rooted cutting. Rooted cuttings will be shipped when ready varying from February through June and cannot be held. Rooted cutting orders must total a minimum of 100 plants. Please give an alternate variety. 25% down. 25 at 100 rate; 250 at 1000 rate.



SHERWOOD NURSERY CO.

Evergreens - PROPAGATORS AND GROWERS

WHOLESALE

Wholesale list available—trade only.

(It contains complete descriptions.)

CORBETT, ORE.

poles. To accomplish this, two utility poles were erected approximately 100 feet apart, backed by a split cedar fence. The exhibit seemed to stir interest in correcting plantings.

Nassau county parks exhibited a colorful display of rhododendrons, azaleas, dogwood, pansies and evergreens. The feature of the garden was a pool filled by water from a cleverly constructed waterfall. A brick patio set in sand was just the item necessary for one to view the pool.

The Nassau county extension service combined with the ornamentals research laboratory of Cornell University on the campus of the State University Agricultural and Technical Institute at Farmingdale to make an educational exhibit. Bulletins

were distributed concerned with controlling insects that attack ornamental plants. Specimens of pests were on display and labeled for identification. Raymond C. Schenk Landscaping Co., Inc., Hicksville, L. I., exhibited a complete living room, where indoor plants were arranged in an attractive indoor landscape scheme.

Although it entered as a commercial exhibitor, Pinelawn Memorial park did an excellent job with a typical corner garden reproduction from the cemetery and received a special industrial award. The garden was constructed within a white brick wall and split cedar fence. It had a clean, restful atmosphere, with a fountain and statuary that were to be viewed from a stone bench. The

plants used were Hicks yews and drifts of pink, white and red azaleas.

A record attendance was reported before the show was four days old. Two local radio stations provided radio coverage of the show for all of Long Island by recording on the spot interviews and broadcasting them from their home stations in Huntington and Hempstead. This, coupled with publicity in newspapers, had a great deal to do with the fine turnout. The final attendance figure indicated more than 22,000 visitors.

Frank BonGiorno provided over 1,500 feet of cedar stockade fence for use as exhibit dividers at the show, and Lou De Leo, Melville, donated cultivated Merion bluegrass sod for all exhibitors.

PRICES AND PROFITS

Comments on Business Management in the Nursery

By John J. Pinney

PAYMENT DEFERRED

"I am sorry I can't pay my bill now. I know it is past due, but my truck broke down and I had to use the money to buy a new one."

"I have your letter in regard to my account. I think you know the kind of spring we had here. It rained most of the time and I still have a good share of the stock on hand. I don't see how I can pay for it until I get it sold. Maybe we will be able to move some of it this fall, but if not, I will not be able to pay you anything until spring."

"You are not any more concerned about my account than I am. I would like to pay you if I could, but I have thousands of dollars outstanding that I have not been able to collect. I cannot pay you until my customers pay me. Maybe after vacations are over I will be able to collect."

Three Types

These are typical letters received by wholesale nurserymen when urging customers to pay past-due accounts. There are many variations, but the reasons in most of them fall into one of three categories:

1. The money was used to pay someone else or spent for some other purpose. Often the customer will confess that he has paid "everyone but you." The money may have been used for a new building, to take a vacation trip or even make an advance payment on stock bought from someone else for future delivery. One debtor frankly admitted he had used the money as a bid bond. He was low bidder, but he bought the nursery stock from his creditor's competitor!

2. Because the stock has not been sold, the debtor is unable to pay. The cause might be unfavorable weather, depressed business conditions or just downright poor business practices. But the wholesaler is expected to wait for his money until the stock has been sold. It might take years!

3. Inability of the debtor to collect from his customers relieves him of responsibility to pay his creditors. It is assumed by the debtor that the wholesaler should not expect payment until the debtor has collected from his customers.

It was not so many years ago that there were only two times in the year when the wholesale bills for nursery stock were payable. Invoices for stock shipped in the spring were payable June 1. Fall invoices fell due December 1. This practice had been followed for such a long time that no one really knows how it started. The best guess, however, is that it was intended to give the dealer time to sell his stock and collect for it before he had to pay his wholesale bills. That was fine for the dealer, but hard on the wholesaler. Gradually, through education and the introduction of better business practices, the system was changed. Today nearly all nursery stock is sold on 30-day terms, and one rarely hears mention of June 1 and December 1 paydays.

The great majority of nurserymen recognize the 30-day terms and faithfully abide by them. A large percentage also take advantage of any discounts offered for payment in 10

days. They show good business acumen when they thus discount their bills, because in that manner they not only increase their profits but establish their credit standing more firmly.

Wholesaler Not Banker

The dealer who, either through ignorance or indifference, fails to meet his obligations on time is forcing the one who supplied him with merchandise to act as his banker. That is not the function of the wholesaler. The wholesaler may, at times, have to borrow to meet his own obligations and when that happens it means he is actually paying interest to carry the account of his delinquent debtors. That can scarcely be called a good business practice. The wholesaler has had his money tied up in the stock for two to five years or longer. He has assumed a big risk in growing it, and he has had no return on his investment. He has had the further expense of harvesting, grading and packing the stock, all of which operations represent cash outlays.

One who goes into retail business encounters certain risks. He runs the risk of being unable to sell his merchandise at a profit. If he sells on credit, he takes the chance of being unable to collect. These are normal

NORTHERN-GROWN STOCK

LANDSCAPE-SIZE SHRUBS			LINING-OUT STOCK		
	Per 10	Per 100		Per 100	Per 1000
<i>Clethra alnifolia</i>			<i>Acer saccharum</i>		
18 to 24 ins., clumps	\$ 4.00	\$ 35.00	2 to 3 ft.	\$ 15.00	....
2 to 3 ft., clumps	6.00	50.00	3 to 4 ft.	30.00	....
<i>Ilex verticillata</i>			4 to 6 ft.	70.00	....
2 to 3 ft., clumps	6.00	50.00	6 to 8 ft.	125.00	....
3 to 4 ft., clumps	7.00	60.00	<i>Betula papyrifera</i>		
4 to 6 ft., clumps	10.00	90.00	1 to 2 ft.	12.00	\$100.00
<i>Viburnum cassinoides</i>			2 to 3 ft.	15.00	120.00
2 to 3 ft., clumps	6.00	50.00	4 to 6 ft.	40.00	....
3 to 4 ft., clumps	8.00	70.00	<i>Clethra alnifolia</i>		
<i>Viburnum dentatum</i>			6 to 18 ins.	8.00	70.00
2 to 3 ft., clumps	5.00	40.00	<i>Ilex verticillata</i>		
3 to 4 ft., clumps	7.00	60.00	1 to 2 ft.	12.00	100.00
4 to 5 ft., clumps	9.00	70.00	<i>Syringa vulgaris</i>		
CLUMP BIRCH			1 to 2 ft.	8.00	70.00
Paper Birch			<i>Viburnum acerifolium</i>		
4 to 6 ft., 3 stems and up	40.00	....	6 to 18 ins.	15.00	120.00
6 to 8 ft., 3 stems and up	60.00	....	<i>Viburnum cassinoides</i>		
Gray Birch			1 to 2 ft.	9.00	80.00
4 to 6 ft., 3 stems and up	30.00	250.00	<i>Viburnum dentatum</i>		
6 to 8 ft., 3 stems and up	45.00	350.00	1 to 2 ft.	9.00	80.00
PAPER BIRCH			HEMLOCK SEEDLINGS		
<i>Betula papyrifera</i>			<i>Tsuga canadensis</i>		
6 to 8 ft., shows color	12.00	100.00	6 to 9 ins.	5.00	30.00
All stock is first-quality collected material			9 to 12 ins.	8.00	70.00
			12 to 18 ins.	15.00	120.00

ISAAC LANGLEY WILLIAMS

P. O. Box 352

Exeter, N. H.

PACHYSANDRA

Terminalis (Japanese Spurge). The ideal permanent evergreen ground cover plant for shady and semi-shaded areas in all climates. Does well in sunny areas, too. Absolutely winter hardy in the most northern climates.

Per 100 Per 1000 Per 1000 for
Strong, well-rooted, 1-yr. plants; propagated in soil and peat frames with light shade. \$5.00 \$45.00 \$42.50
Available for prompt shipment throughout the year. Shipments anywhere including Canada. Good packing free. A good source of supply.

PEEKSKILL NURSERY

Phone: Lakeland 8-5545
SHRUB OAK, N. Y.

APRIL 1, 1958

29

BEATS HAND RAKING!



York RAKE

operated by one man, replaces a whole crew of hand rakers—saves its cost on the first good job. Yes, with a York Mechanical Landscaping Rake, you can do more jobs faster, better and at lower costs.

Rakes stones, roots debris . . . grades, levels and mulches soil . . . spreads topsoil . . . spreads stone or gravel for driveways . . . with (optional) blade attached can be used for ditching, terracing or reversed for bulldozing, backfilling, snowplowing.

The York Rake permits smaller landscapers to bid on the big jobs—parks, athletic fields, industrial parks, golf courses, outdoor theatres, etc.—as well as making more profit on residential jobs.

The York Rake is engineered and built to withstand years of hard use. Teeth are heavy-duty alloy spring steel. The rake is quickly adjustable to 5 different angles both forward and re-

verse . . . can easily be raised, lowered or tilted from tractor seat. Model RE fits tractors with 3-point hitch, lighter models for Farmall Cub and Massey-Harris Pony and Pacer.

Get free descriptive literature, prices and name of nearest dealer—Mail coupon today!



York Modern Corp.

Dept. N-84


Unadilla, N. Y.

Please rush full information on the York Mechanical Landscaping Rake also name of nearest dealer.

Name.....

Street.....

City..... P. O. Zone..... State.....



Bundle of 15 Musser seedlings, at right, compared with bundle of 15 ordinary seedlings.

MUSSER TREES GROW BEST—

because—GOOD HEREDITY and CAREFUL SELECTION OF SEED—SCIENTIFIC CULTURE IN THE NURSERY assure HEAVY ROOTS and STURDY TOPS. Our TREMENDOUS VOLUME enables us to offer MORE FOR YOUR MONEY.

As much difference in seed as in common and purebred cattle.

SEEDLINGS AND TRANSPLANTS AT LOW, QUANTITY PRICE

	Per 100	Per 1000		Per 100	Per 1000
● SPECIAL STRAIN SCOTCH PINE					
Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed specimens, with rich color.					
2-yr., S., 4 to 8 ins.	\$ 7.00	\$ 35.00			
4-yr., T., 8 to 14 ins.	25.00	125.00			
● MUGHO PINE					
3-yr., S., 3 to 5 ins.	8.00	40.00			
5-yr., T., 6 to 12 ins.	25.00	.....		
● AUSTRIAN PINE					
3-yr., S., 8 to 14 ins.	10.00	50.00			
● BLACK HILLS SPRUCE					
3-yr., S., 4 to 8 ins.	7.00	35.00			
4-yr., S., 5 to 10 ins.	10.00	50.00			
4-yr., T., 5 to 10 ins.	17.00	85.00			
● NORWAY SPRUCE—Fast-growing					
Special strain of our own collection.					
2-yr., S., 5 to 10 ins.	7.00	35.00			
3-yr., S., 8 to 12 ins.	10.00	50.00			
4-yr., T. (2-2), 10 to 14 ins.	20.00	100.00			
Excellent understock.					
● WHITE SPRUCE					
3-yr., S., 8 to 12 ins.	9.00	45.00			
● COLORADO BLUE SPRUCE					
3-yr., S., 6 to 10 ins.	12.00	60.00			
5-yr., T., 8 to 12 ins.	35.00	175.00			
● DOUGLAS FIR					
2-yr., S., 5 to 10 ins.	7.00	35.00			
● AMERICAN ARBORVITAE					
3-yr., S., 6 to 8 ins.	8.00	40.00			
● CANADIAN HEMLOCK					
3-yr., S., 8 to 12 ins.	24.00	120.00			
● RED BARBERRY					
2-yr., S., 8 to 12 ins.	12.00	.....		
● CONCOLOR FIR					
2-yr., S., 3 to 6 ins.	9.00	45.00			
● JAPANESE YEW					
<i>Taxus cuspidata capitata—upright pyramidal</i>					
2-yr., S., 3 to 6 ins.	\$20.00	\$150.00			
4-yr., T., 6 to 10 ins.	40.00	.....		
<i>Taxus cuspidata—spreading</i>					
1-yr., T., 5 to 6 ins.	20.00	150.00			
2-yr., T., 8 to 12 ins.	40.00	350.00			
<i>Taxus Hicksi—upright</i>					
1-yr., T., 5 to 6 ins.	25.00	175.00			
2-yr., T., 8 to 12 ins.	40.00	300.00			
<i>Taxus browali</i>					
1-yr., T., 4 to 6 ins.	25.00	175.00			
2-yr., T., 6 to 8 ins.	40.00	350.00			
<i>Taxus cuspidata capitata—spreading</i>					
From side cuttings.					
2-yr., T., 6 to 8 ins.	30.00	250.00			
<i>Taxus cuspidata capitata—upright</i>					
From tip cuttings.					
1-yr., T., 6 to 8 ins.	25.00	.....		
<i>Taxus intermedia—spreading</i>					
1-yr., T., 4 to 6 ins.	25.00	175.00			
2-yr., T., 6 to 8 ins.	40.00	350.00			
● JUNIPER HETZI GLAUCOA					
1-yr., T., 5 to 7 ins.	25.00	.....		
● GLOBE ARBORVITAE					
Woodwardi					
2-yr., T., 5 to 8 ins.	90.00	.....		
Hovey's					
1-yr., T., 4 to 6 ins.	30.00	250.00			
● PYRAMIDAL ARBORVITAE—Compacta					
1-yr., T., 5 to 7 ins.	30.00	.....		
● JAPANESE HOLLY					
<i>Ilex rotundifolia</i>					
1-yr., T., 5 to 6 ins.	20.00	175.00			
2-yr., T., 6 to 8 ins.	30.00	250.00			
<i>Ilex cuneata</i>					
1-yr., T., 4 to 6 ins.	20.00	175.00			
● WHITE DOGWOOD					
Seedlings, 4 to 8 ins.	9.00	.....		

ORDER NOW!

Write or
Phone 5-5686

Many Other Evergreen Items—Rhododendrons and Azaleas

—Our cold storage permits late shipments—

No charge for packing and boxing.

SEND FOR COMPLETE CATALOG and WHOLESALE PLANTING LIST—also famous CHRISTMAS TREE GROWERS' GUIDE.

MUSSER FORESTS

Box 16-D
INDIANA, PENNA.

risks that are the responsibility of the owner of the business. He cannot expect the wholesaler to assume them for him. He has no right to make the payment of his obligations contingent upon selling his merchandise or making a profit.

What merchant would not welcome the opportunity to stock his shelves with merchandise that he did not have to pay for until it was sold or, if he sold it on credit, until it was paid for or until he was so moved, being permitted to use the money from the sale of it to pay someone else? Although this sounds fantastic, it takes place all too often in the nursery business.

The delinquent debtor not only is unfair to his creditors, but he also is doing himself a disservice. He is injuring his credit, one of his most valuable assets. If he cannot get credit from his banker, whose business it is to lend money, he should not expect to get credit from the wholesaler.

A. A. N. MEXICAN TRIP

Announcements are being circulated by the American Association of Nurserymen of official post-convention trips to Mexico after the sessions scheduled at Dallas, Tex., July 19 to 24. The tours have been especially arranged for and approved by the A. A. N. and will be conducted by United States Travel Agency, Inc., Washington, D. C.

Open to the nurserymen and their guests are two optional itineraries, one of seven days and another of 10 days. The entire excursion group will leave Thursday, July 24, for the air trip to Mexico City from Fort Worth airport. The next six days will be spent at Mexico City and in making motor trips to other areas of interest. The trip "A" group will return Wednesday, July 30, while those electing to take the trip "B" extension will have another three days for a sojourn at Acapulco before returning home.

DROUGHT LOSSES

A recent issue of the News-Letter of the American Association of Nurserymen points out that the Kiplinger Tax Letter of February called attention to the fact that an individual could deduct losses of plants, due to drought, as a casualty loss, up to replacement cost. This is not a new policy, the report indicates, as it was originally established in Whipple vs. U. S. in 1928.

The first case of casualty loss due to drought, the News-Letter con-

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Ilgenfritz Since 1847

Quality Seedlings and Transplants

PINE — SPRUCE FIR — HEMLOCK

	Per 100	Per 1000
SCOTCH PINE (Austrian Hill)		
2-yr., S., 4 to 6 ins.	\$ 5.50	\$ 30.00
3-yr., T., 3 to 6 ins.	9.00	60.00
4-yr., T., 5 to 10 ins.	10.00	70.00
SCOTCH PINE (German)		
2-yr., S., 4 to 6 ins.	6.00	32.50
SCOTCH PINE (French)		
2-yr., S., 2 to 4 ins.	2.50	12.50
2-yr., S., 4 to 6 ins.	5.00	27.50
SCOTCH PINE (Riga Rigensis)		
2-yr., S., 4 to 6 ins.	5.50	30.00
AMERICAN RED PINE		
2-yr., S., 2 to 4 ins.	5.00	25.00
3-yr., S., 5 to 10 ins.	5.50	30.00
3-yr., T., 3 to 6 ins.	6.50	40.00
4-yr., T., 4 to 8 ins.	7.50	50.00
PONDEROSA PINE		
2-yr., S., 3 to 5 ins.	5.00	25.00
AUSTRIAN PINE		
2-yr., S., 2 to 4 ins.	5.00	25.00
3-yr., S., 5 to 10 ins.	6.50	40.00
MUGHO PINE, sheared		
3-yr., S., 4 to 8 ins.	6.50	40.00
3-yr., T., 3 to 4 ins.	9.50	65.00
4-yr., T., 4 to 8 ins.	12.00	90.00
WHITE PINE		
2-yr., S., 3 to 4 ins.	5.50	30.00
3-yr., T., 3 to 6 ins.	6.50	40.00
COLORADO BLUE SPRUCE, from blue seed trees		
2-yr., S., 3 to 6 ins.	6.00	35.00
3-yr., S., 5 to 10 ins.	7.50	50.00
3-yr., T., 3 to 6 ins.	9.00	60.00
4-yr., T., 4 to 8 ins.	11.00	80.00
5-yr., T., 8 to 12 ins.	15.50	120.00
NORWAY SPRUCE		
2-yr., S., 4 to 6 ins.	5.50	30.00
3-yr., S., 6 to 12 ins.	6.50	40.00
3-yr., T., 4 to 9 ins.	7.50	50.00
4-yr., T., 6 to 10 ins.	9.00	60.00
5-yr., T., 8 to 14 ins.	10.00	70.00
BLACK HILLS SPRUCE		
3-yr., T., 3 to 6 ins.	6.50	40.00
DOUGLAS FIR, blue Colorado seed		
2-yr., S., 3 to 6 ins.	6.50	40.00
3-yr., T., 3 to 6 ins.	8.50	55.00
DOUGLAS FIR, gray Columbia seed		
2-yr., S., 3 to 6 ins.	5.00	25.00
3-yr., S., 5 to 12 ins.	6.50	40.00
4-yr., T., 4 to 6 ins.	9.00	60.00
CONCOLOR, or WHITE FIR		
2-yr., S., 3 to 6 ins.	7.00	45.00
CANADIAN HEMLOCK		
3-yr., T., 3 to 6 ins.	10.00	70.00
4-yr., T., 4 to 8 ins.	11.00	80.00
5-yr., T., 6 to 12 ins.	15.50	120.00
AMERICAN ARBORVITAE		
4-yr., T., 6 to 12 ins.	13.00	100.00
6-yr., T., 12 to 20 ins.	20.00	150.00
CHINESE ARBORVITAE		
3-yr., S., 5 to 12 ins.	9.00	60.00

All prices are F.O.B. shipping point. Cash or 50 per cent deposit with all orders. Balance will be sent C.O.D. When entire payment accompanies order a 2 per cent cash discount is allowed.

Many other nursery items—shrubs, shade and flowering trees, ornamentals, reforestation stock, etc. Our big 1958 catalog free on request; send for it today.

Pikes Peak Nurseries

P. O. Box 670 — Dept. A
Indiana, Indiana County, Pa.

tues, was probably in 1949 (Buttram vs. Jones), when the court held that an unprecedented and unusual drought was a casualty within the meaning of Section 23 (e) (3) of the Revenue Code.

In all cases of casualty losses on residential property, the loss sustained and deductible is the difference in the value of the property just before the loss took place and just after. Two appraisals should be made, one by a realtor and one by a nurseryman, to determine replacement costs.

Casualty losses due to storms, floods, etc., of sudden occurrence have been generally sustained by the courts, including the United States Tax court, it is stated further. Casualties due to insect and disease losses have not been upheld, in so far as known. The casualty loss referred to in Kiplinger's Tax Letter was *Winters vs. U. S.* in United States Federal District Court, Oklahoma, January, 1958.

A third casualty loss due to drought is now before the U. S. Tax court for decision. This is the court of last appeal. The case originated in Virginia (*Martinson vs. U. S.*). The claim is for loss of two large oaks valued at \$400 each, and the loss is claimed to have been caused by the 'severe, sudden and unusual drought' of 1954. The results of this case will be controlling, as it is the only one of the three known drought cases to be appealed to the U. S. Tax court.

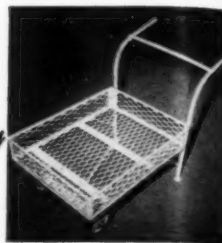
ILLINOIS OFFICIAL NAMED

Governor William Stratton of Illinois recently appointed F. G. Anderson, Anna Nursery, Anna, Ill., director of the division of plant industry, Illinois department of agriculture. Mr. Anderson has been an Illinois nursery inspector for the past 35 years, having taken the post immediately after his graduation from the University of Illinois college of agriculture, Urbana. He holds an honorary and — as operator of the Anna Nursery — active membership in the Illinois State Nurserymen's Association.

W. G. LAYTON plans to sell his nursery at Boothwyn, Pa., and move to the west coast.

ESTABLISHMENT of a garden center in Florida is contemplated by Mr. and Mrs. Maurice F. Shaner, Shaner's Nursery, New Kensington, Pa., who recently purchased property there.

Sturdy
tip-
proof



Cloverset HANDY CARTS

Well-balanced nursery carts of strong welded steel with 24x30x6-in. bed; holds 12 potted roses or equivalent in safe upright position. Two free-running, ball-bearing 10x1.75-in. wheels have semi-pneumatic tires. Shipping weight approximately 45 lbs.; shipped in carton and easily assembled.

\$32.50

F.O.B. Kansas City

Extra sales
for extra
profits with
Cloverset



ROSE & GARDEN DUST

Our own high-Lindane formula proved highly effective against chewing and sucking insects, blackspot and powdery mildew. Water-soluble; may be used as a dust or spray. Five sizes.

Size	Retail	No. in Case	Your Price
8-oz. sifter	\$ 0.85	12, wt. 8 lbs.	\$ 6.80
1-lb. sifter	1.50	12, wt. 16 lbs.	12.50
12-oz. dust gun ..	1.50	12, wt. 13 lbs.	12.00
4-lb. container ..	4.80	6, wt. 29 lbs.	19.20
50-lb. sack	55.00	1, wt. 50 lbs.	36.67

100 lbs. or more orders shipped prepaid.

Practical products for
the modern nursery, from



105th and Wornall Rd.
KANSAS CITY 14, MO.

CLOVERSET FARM, Dept. A

105th and Wornall, Kansas City 14, Mo.

Please send items checked:

- ☐ Handy Cart(s) at \$32.50
F.O.B. Kansas City.
- ☐ Complete information on Cloverset
Rose Dust.

Name

Firm

Address

SIZE
EVER

roses,
shrubs,

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CLOVERSET
105th and
Kansas C

Please

☐ Samp

☐ Comp

NAME..

FIRM...

ADDRESS

As any practical nurseryman who's used them all can tell you,
when it comes to pots for potting
stock for cash-and-carry sales,

ONE STANDS OUT!

THE *Cloverset* POT

an even DOZEN reasons for Cloverset superiority . . .

1. Lasts a full year or more in the sales frame.
2. Contains roots safely within the soil ball; permits transplanting any time.
3. Has adequate bottom opening for good drainage without waterlogging; no gravel necessary.
4. Rests on wide bottom; no blowing over in the frames.
5. Available in sizes to accommodate stock of any salable size.
6. Is neat and uniform in appearance, an asset in the sales area.

7. Tough enough to permit easy handling in potting shed and frame.

8. Easy for customer to remove—at once, week later or even a month after he takes stock home.

9. Saves time required to cut away metal cans before delivery.

10. Need not be removed before plant is delivered to customer.

11. Lightweight (but with all these qualities) to save on freight costs.

12. . . . and sufficiently low-priced so that it may be given away with the plant.

ONLY CLOVERSET POTS give you all these features. In addition, they come stacked in cartons with bottom flaps folded in, ready to use; even inexperienced workers in the potting shed can do a neat job with Cloverset Pots! Order now and be all set for profitable cash-and-carry sales.

Cloverset Pot Prices F.O.B. Kansas City, Mo., and Moorestown, N. J.

SIZE	HEIGHT	Top Diam.	Nearest Clay Pot	No. in Carton	WEIGHT	F.O.B. KANSAS CITY		F.O.B. MOORESTOWN, N. J.	
						Per 100	Per 1000	Per 100	Per 1000
No. 0	5 1/4 ins.	5 ins.	6 ins.	200	210 lbs.	\$4.25	\$40.00	\$ 5.25	\$ 48.50
No. 1	6 1/4 ins.	6 ins.	7 ins.	100	340 lbs.	5.25	50.00	6.25	58.50
No. 2	7 1/4 ins.	7 ins.	8 ins.	100	535 lbs.	5.75	55.00	7.25	68.50
No. 3	9 ins.	8 ins.	9 ins.	100	600 lbs.	6.25	60.00	8.25	78.00
						25 pots, \$7.75; 50 pots, \$14.00; 75, \$21.75; 100, \$28.15;			
No. 4	13 ins.	12 ins.	...	25	Per 100 133 lbs.	10.00	\$291.00.	30.00	265.00

(We do not break cartons)

SIZES FOR EVERY NEED:

roses, perennials,
shrubs, young trees

ORDER NOW; HAVE POTS ON HAND FOR SPRING POTTING!

CLOVERSET FARM, Dept. A
105th and Wornall Rd.
Kansas City 14, Mo.

Please send items checked; I enclosec.

☐ Sample set of 5 pots, 50c (limit one).

☐ Complete information about Cloverset Pots.

NAME.....

FIRM.....

ADDRESS.....

Use coupon to order sample set.



105th and Wornall Rd. KANSAS CITY 14, MO.
EASTERN DISTRIBUTOR, Moorestown Gardens, Moorestown, Burlington
County, N. J.

garden and nursery
material for . . .



THE GARDEN MART THE RETAIL NURSERYMAN THE ROADSIDE MARKET

FROM NEW YORK TO WASHINGTON, D. C.

POTTED NURSERY STOCK

Each	Each
Mimosa, pink flowers, 5 to 6 ft., br. \$2.25	Flowering Quince, scarlet, 18 to 24 ins. .90
Mimosa, pink flowers, 6 to 8 ft. .3.25	Slender Deutzia, white flowers, 12 to 15 ins. .95
Crimson King Maple, 5 to 6 ft. .4.00	Double Pink Deutzia, 2 to 3 ft. .90
Cherokee Chief Dogwood, red, 3 to 4 ft. .6.00	Spring Glory Forsythia, bright yellow, 2 to 3 ft. 1.00
Weeping Purple Beech, 3 to 4 ft. .3.00	Lynwood Gold Forsythia, golden, 18 to 24 ins. .95
River's Purple Beech, 3 to 4 ft. .3.25	Snowhill Hydrangea, double white, 15 to 24 ins. .80
Moraine Locust, 5 to 6 ft. .4.50	Vernal Witch Hazel, yellow, 2 to 3 ft. 1.25
Golden Chain Tree, 5 to 6 ft. .5.50	Sweet Mock Orange, white, fragrant, 2 to 3 ft. .90
Almey Flowering Crab Apple, red blossoms, 4 to 5 ft. .3.25	Lemoine Mock Orange, semidouble white, 18 to 24 ins. 1.00
Japanese Flowering Crab Apple, rose flowers, 4 to 5 ft. .2.25	Virginal Mock Orange, double white, 2 to 3 ft. 1.00
Hopa Red-flowering Crab Apple, double red flowers, 4 to 5 ft. .2.25	Bridal Wreath Spiraea, white, 2 to 3 ft. .95
Bechtel Flowering Crab Apple, double pink flowers, 4 to 5 ft. .3.25	Baby's Breath Spiraea, pure white, 2 to 3 ft. 1.00
Eley Flowering Crab Apple, crimson flowers, 4 to 5 ft. .2.25	French Tamarix, pink panicles, 2 to 3 ft. .90
Scheidecker Flowering Crab Apple, double pink flowers, 4 to 5 ft. .2.25	Lilac Chaste Tree, lilac flowers, 18 to 24 ins. .90
Makamik Flowering Crab Apple, pink, 4 to 5 ft. .3.00	Red-flowered Weigela, 18 to 24 ins. 1.00
Mt. Fuji Flowering Cherry, double white, 4 to 5 ft. .4.00	Pink-flowered Weigela, 2 to 3 ft. .90
Kwanzan Flowering Cherry, double pink, 4 to 5 ft. .4.00	Vanicek Weigela, crimson, 18 to 24 ins. 1.00
Weeping Japanese Cherry, double pink, 2-yr., No. 1. .8.50	
Sweet Shrub, purple flowers, 18 to 24 ins. .95	

price lists sent on request — free delivery on quantity lots

Fred W. Muller, Inc.

Established 1915

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Phone: LOwell 6-2755

ILEX CONVEXA

Hardy, northern-grown stock. Heavy, well-sheared plants with exceptionally good color. Truck or trailerload.

18 to 24 ins.	\$3.00
24 to 30 ins.	3.75
30 to 36 ins.	5.50
3 to 3½ ft.	6.50

ANGELICA NURSERIES

R. D. No. 1

Mohnton, Pa.

FOR SPRING SHIPMENT

- 1200 Acer palmatum atropurpureum, seed-grown, 3-yr., T.
- 900 Acer palmatum atropurpureum, 1-yr., grafts
- 8000 Barberry, thunbergi atropurpurea, 2-yr., S., 6 to 9 ins.
- 2000 Chamaecyparis plumosa aurea, 2-yr., T.
- 3000 Cornus florida, 1-yr., S., heavy.
- 1000 Cornus florida Prosser, grafts, from pots
- 1000 Ilex crenata latifolia, 2-yr., T.
- 5000 Taxus cuspidata capitata, 2-yr., T.
- 2500 Tsuga caroliniana, 2-yr., T.

VERKADE'S NURSERIES
NEW LONDON, CONN.

LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list on printed stationery.

DEERFIELD NURSERIES
DEERFIELD, N. J.

**For Quality Stock—
RICKERT NURSERIES**

Successor to Moon's
Established 1767
MORRISVILLE, PA.

OBITUARY

Clyde W. Albright

Clyde W. Albright, 62, owner of Albright's Nursery, Superior, Wis., died February 26 after a short illness. Mr. Albright took over ownership of the nursery at the death of his father, Frank R. Albright, in 1929 and was a member of the American Association of Nurserymen and the Wisconsin Nurserymen's Association. His wife, Nellie, and his son, Donald, who worked with his father since 1946, will continue to operate the nursery. Other survivors include a daughter, Mrs. Gene A. Nelson.

Vincent Banos

Vincent Banos, owner and operator of Brookfield Gardens, Delaware, N. J., died February 4. Mr. Banos was born in Greece in 1890 and came to the United States at the age of 9. Forced by ill health to abandon his real-estate and brokerage business in the 1930's, he bought a farm near Delaware and planted trees as a hobby. From this hobby the Brookfield Gardens nursery operation later developed.

Mr. Banos was a member of the American Association of Nurserymen, the New Jersey Association of Nurserymen and the North Jersey Metropolitan Nurserymen's Association. Active also in civic affairs, he was president of the Delaware board of trade for several years, was on the Republican committee of Warren county and was appointed a member of the New Jersey state board of tenement house supervision. He is survived by his wife, who will continue the nursery, and three brothers.

Mrs. Adaline M. Heard

Mrs. Adaline M. Heard, mother of Clyde Heard, Heard's Landscape Nurseries, Des Moines, Ia., a member of the American Association of Nurserymen and of the Iowa Nurserymen's Association, died February 27 at the Hamilton nursing home, Des Moines, at the age of 90. Born at Wheatland, Mo., she lived in Idaho until moving to Des Moines in 1931. In addition to her son Clyde, she is survived by another son, H. Claude, Whittier, Calif.

Charles H. Pillman

Charles H. Pillman, 54, owner of the Pillman Co., Evansville, Ind., died suddenly of a heart ailment February 17 near his home at Evansville. Mr. Pillman was born at Evansville and was a graduate of Purdue

You can plant later when you use WILLIS'

Potted liners that live TRADE MARK and Grow

and you get better stands. They are also ideal for container-growing

SHRUBS

	Each Per 100	Each Per 1000
Almond (See Prunus)		
Berberis (Barberry)		
Mentorensis, 2¼-in. pots	\$.25	\$0.20
Buddleia (Butterfly Bush)		
Alternifolia, 2-in. pots	.18	.16
Callicarpa (Beauty Bush)		
Dichotoma, 2¼-in. pots	.18	.16
Chaenomeles (Flowering Quince)		
Lagenaria Pink Lady, 2¼-in. pots	.18	.16
Colutea (Bladder Senna)		
Arborescens, 2¼-in. pots	.18	.16
Cornus (Dogwood)		
Paniculata, 2½-in. pots	.18	.16
Cotoneaster		
Divaricata, 2-in. pots	.20	.18
Cydonia (See Chaenomeles)		
Desmodium		
Penduliflorum, 2¼-in. pots	.20	.18
Deutzia		
Corymbosa (Himalaya Deutzia), 2½-in. pots	.18	.16
Euonymus		
Alatus compactus, 2-in. pots	.20	.18
Exochorda (Pearl Bush)		
Grandiflora, 6 to 12 ins.	.12	.10
Forsythia (Golden Bell)		
Arnold's Giant, 2¼-in. pots	.20	.18
Intermedia spectabilis, 2¼-in. pots	.18	.16
Lynwood Gold, 2-in. pots	.20	.18
Spring Glory, 2-in. pots	.20	.18
Viridissima bronxensis (Dwarf), 2-in. pots	.20	.18
Hypericum (St.-John's-wort)		
Hidcote, 2-in. pots	.20	.18
Kalmianum, 2-in. pots	.20	.18
Kolkwitzia (Beauty Bush)		
Amabilis, 2¼-in. pots	.22	.20
Lonicera (Bush Honeysuckle)		
Clavey's Dwarf, 2¼-in. pots	.22	.20
Fragrantissima, 2-in. pots	.18	.16
Korolkowi floribunda, 2-in. pots	.18	.16
Morrowi, 2-in. pots	.18	.16
Tatarica Wheeling, 2¼-in. pots	.18	.16
Zabeli, 2-in. pots	.18	.16
Philadelphus (Mock Orange)		
Avalanche, 2¼-in. pots	.18	.16
Belle Etoile, 2¼-in. pots	.18	.16
Coronarius, 2¼-in. pots	.18	.16
Enchantment, 2¼-in. pots	.18	.16
Mont Blanc, 2¼-in. pots	.18	.16
Virginalis, 2¼-in. pots	.18	.16
Physocarpus (Ninebark)		
Opulifolius nanus (Dwarf), 2-in. pots	.18	.16
Prunus		
Glandulosa alba (White-flowering Almond, 2-in. pots)	.18	.16
Glandulosa rosea (Pink-flowering Almond), 2-in. pots	.18	.16
Jacquemonti (Jacquemont Cherry), 2-in. pots	.18	.16

	Each Per 100	Each Per 1000
Ribes		
Odoratatum (Flowering Currant), 2¼-in. pots	\$.18	\$0.16
Salix (Willow)		
Discolor, 2¼-in. pots	.18	.16
Spiraea		
Anthony Waterer, 2-in. pots	.19	.17
Arguta, 2-in. pots	.18	.16
Froebeli, 2¼-in. pots	.18	.16
Japonica coccinea, 2-in. pots	.20	.18
Mongolica, 2-in. pots	.18	.16
Thunbergi, 2-in. pots	.18	.16
Syringa (Lilac)		
Rothomagensis, 2¼-in. pots	.18	.16
Rothomagensis Cut-leaved (New), 2-in. pots	.20	.18
Rothomagensis, pink, 2¼-in. pots	.20	.18
Viburnum		
Opulus, 2¼-in. pots	.18	.16
Weigela		
Rosea, 2½-in. pots	.18	.16

VINES

	Each Per 100	Each Per 1000
Celastrus (Bittersweet)		
Scandens (Fruiting strain), 2-in. pots	\$.18	\$0.16
Lonicera (Honeysuckle)		
Goldflame, 2¼-in. pots	.20	.18
Japonica halliana, 2-in. pots	.14	.12
Redgold (Tellmanniana), 2¼-in. pots	.20	.18
Sempervirens, Dreer's, 2-in. pots	.18	.16
Sempervirens, yellow, 2-in. pots	.18	.16
Yellownet, 2-in. pots	.18	.16
Polygonum		
Reynowtria, 2¼-in. pots	.20	.18

EVERGREENS

	Each Per 100	Each Per 1000
Juniperus (Juniper)		
Communis depressa plumosa, 2-in. pots	\$0.22	\$0.20
Sabina, 2¼-in. pots	.22	.20
Sabina vonchroon, 2-yr., heavy tops, 2¼-in. pots	.27	.25
Taxus (Yew)		
Cuspidata (Japanese Yew), 2½-in. pots	.22	.20

BROAD-LEAVED EVERGREENS

	Each Per 100	Each Per 1000
Cotoneaster		
Divaricata, 2-in. pots	\$0.20	\$0.18
Euonymus		
Fortunei, 2-in. pots	.20	.18
Fortunei vegetus, 2¼-in. pots	.25	.20
Patens, Du Pont, 2-in. pots	.30	.25
Patens, Large-Leaved, 2-in. pots	.18	.16
Pyracantha (Firethorn)		
Coccinea, Vincent's Hardy Strain		
3-in. pots	.25	.22
2-in. pots	.20	.18
Coccinea pauciflora		
3-in. pots	.25	.22
2-in. pots	.20	.18

THE WILLIS NURSERY CO.

"Your Wholesale Nurserymen"

OTTAWA, KAN.



MALLOW or HARDY HIBISCUS ANNIE J. HEMMING

Plant Patent 835

A beautiful, luminous red Mallow, selected for its rich color, overlapping petals, dark green foliage, medium size and lack of coarseness. Flowers in July, August and September—even until frost. A single two-year plant bore 250 six to seven-inch flowers in one season. Quite hardy.

Easy to grow and transplant.

An ideal plant for mail-order and garden store business.

2-yr., No. 1 Plants

\$125.00 per 100.

Color plate available.

Attractive metal plant patent tag attached to each plant.

Orders received before April 1 will be potted in 6-in. plastic pots, without additional charge, if desired for summer garden store sales.

Write for trade list.

EASTERN SHORE NURSERIES, INC.

P. O. Box 743

EASTON, MD.

University, Lafayette, Ind. He served as Evansville city forester for several years before starting his own nursery and landscaping business in 1938. A member of the American Association of Nurserymen, Mr. Pillman was also a director of the Indiana Association of Nurserymen. Survivors include the widow, the former Edrie Gass; two brothers, and four sisters.

Mrs. Hans P. Jorgensen

Mrs. Hans P. Jorgensen, 68, died recently of a heart ailment at Iowa Methodist hospital, Des Moines, Ia. A native of Ringsted, Ia., Mrs. Jorgensen had assisted her husband, a member of the American Association of Nurserymen and the Iowa Nurserymen's Association, in conducting Jorgensen's Perennial Gardens at their Des Moines home for 35 years. Survivors include her husband and a son, Iver.

TRAINING PERSONNEL

[Continued from page 17]

ramifications, still employs 40 per cent of the workers in the United States. This means that 40 per cent of all jobs today are in agriculture, or in an industry which depends upon, or is closely related to, agriculture.

Mr. Mann feels that high school guidance counselors could benefit by knowing more about the need of agriculture for good students and capable persons and that the public in general and students in particular should be made aware of the career

"A friendly, efficient sales service"

E. D. ROBINSON SALES AGENCY

38 S. Elm St. P. O. Box 247
WALLINGFORD, CONN.

Representing:

Adams Nursery, Inc.
Bristol Nurseries, Inc.
Barnes Bros. Nursery Co., Inc.
The Cheshire Nursery, Inc.
Gulf Stream Nursery, Inc.
Maxwell, Bowden & Rice, Inc.
A. N. Pierson, Inc.
Sunny Border, Inc.
Verkade's Nurseries

Refer to our list in the
March 1 issue on pages 36 and 37.

SHADE TREES—ORNAMENTALS

Gleditsia triacanthos, Carpinus caroliniana, Cercis canadensis, Cornus florida, Phellodendron amurense, Platanus acerifolia, Liquidambar styraciflua, Acer platanoides, Acer rubrum, Fraxinus americana, Acer glabrum, Ostrya virginiana, Koeleria paniculata, Pyrus calleryana, Pinus strobus, Pinus nigra, Salix babylonica, Pieris japonica and many more.

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Phone: Millington 7-1158 Gillette, N. J.

Yew—Hemlock—Juniper—Arborvitae

In liners and finished stock.

LEGHORN'S EVERGREEN
NURSERY CO., INC.

50 Geer St. Cromwell, Conn.

FLICKINGERS' NURSERY SAGAMORE, PA.

The only bargain you get in seedlings is quality. Please compare ours for quality.

Per 100 Per 1000

Scotch Pine		
2-yr., 2 to 4 ins.	\$ 2.50	\$ 12.50
2-yr., 4 to 8 ins.	5.00	25.00
(2-2), 6 to 12 ins.	18.00	90.00
(2-2), 12 to 18 ins.	20.00	100.00
Austrian Pine		
2-yr., 3 to 5 ins.	3.60	18.00
Ponderosa Pine		
3-yr., 6 to 10 ins.	5.00	25.00
3-yr., 12 to 18 ins.	6.00	30.00
Colorado Blue Spruce		
2-yr., 2 to 5 ins.	4.50	22.50
3-yr., 5 to 9 ins.	9.00	45.00
(2-2), 6 to 10 ins.	24.00	120.00
White Spruce		
4-yr., 6 to 12 ins.	8.00	40.00
Canadian Hemlock		
4-yr., 8 to 12 ins.	12.00	60.00
4-yr., 12 to 18 ins.	16.00	80.00
Red-leaved Barberry		
6-yr., T., 18 to 24 ins.	50.00	

5% discount on 25,000 or more of combined species of seedlings and transplants. Catalog free.

Hollies
NOTHING BUT RETAIL QUALITY.
3 to 12 IN. CONTAINER-GROWN
AMERICAN - ENGLISH - CHINESE
Native American Holly Farms
115 S. PENN ST. MANHEIM, PA.

Commenting upon positive steps that have been taken to encourage students to enter the agricultural field, Mr. Mann stated that universities are preparing informational booklets about careers in agricul-

possibilities in the field of agriculture. He noted that since the immediate earning power of graduates in agricultural fields may be somewhat lower than it is in other fields, students become discouraged about their financial prospects in the field.

3

1

RHODODENDRON

We are growing over 100 named hybrid varieties on their own roots. These are available in sizes ranging from liners to 4 ft., heavy, field plants. Our plants are exceptionally nice; most varieties are well budded. If you need rhododendron, we have the finest. Efficient, volume production enables us to quote these low prices. Come, see them.

ROSEUM ELEGANS

12 to 15 ins.....	\$1.75
15 to 18 ins.....	2.50
18 to 21 ins.....	3.00
21 to 24 ins.....	4.00
24 to 27 ins.....	5.00
27 to 30 ins.....	5.75
2½ to 3 ft.....	7.00
3 to 3½ ft.....	8.00

REDS: America, Dr. Dresselhuys, F. D. Godman, Ignatius Sargent, V. W. Poeiman, John Walter, etc.

12 to 15 ins.....	\$ 2.75
15 to 18 ins.....	3.25
18 to 21 ins.....	4.00
21 to 24 ins.....	5.50
24 to 27 ins.....	6.75
27 to 30 ins.....	8.50
2½ to 3 ft.....	10.50
3 to 3½ ft.....	12.00

Other varieties of pink and red as well as whites, purples, etc., as listed in our spring, 1958 catalog.

Also available in quantity; truck or trailerloads: **PIERIS JAPONICA**, 15 to 18 ins. to 2 to 2½ ft.; **ILEX CONVEXA**, 18 to 24 ins. to 3 to 3½ ft.; **PINK DOGWOODS**, well-budded, 3 to 4 ft. to 7 to 8 ft.

For the Finest in Plants—Give Us a Try

ANGELICA NURSERIES

Growers of fine plants

R. D. No. 1

Mohnton, Pa.

BIG

We have one of the largest available supplies of big specimen material, including:

HYBRID RHODODENDRON

- TSUGA CANADENSIS
- GINKGO BILOBA
- AZALEA
- ILEX BUXIFOLIA
- ILEX OPACA
- TAXUS FASTIGIATA
- TAXUS REPANDENS
- TAXUS CUSPIDATA

For 40 years
one of America's
leading nurseries



Office and Nurseries
P. O. BOX 175, COCKEYSVILLE, MD.

QUALITY MERCHANDISE AT REASONABLE PRICES

VANDERBROOK NURSERIES, INC.

MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

GROWERS

EVERGREEN TREE LINING-OUT STOCK

Write for free price list.

SUNCREST EVERGREEN NURSERIES

P. O. Box 305-F HOMER CITY, PA.

Concord Grape Roots
Red Raspberry

Flowering Shrubs
Boston Ivy

Currents
IVAN R. CONGDON NURSERY
North Collins, N. Y.

ture, and are trying to spend time with guidance counselors to show them the possibilities in the industry. Groups of prospective students also are being encouraged to visit the university campus to find out what its facilities are.

Mr. Mann asked for the help of the nurserymen in encouraging the latter program and recommended that they try to discover, in their own communities, qualified prospective students. He cited as one example of this activity a project of a dairy manufacturing group, which has arranged visiting days for prospective students in cooperation with the university program. Mr. Mann feels that the students are potentially available, if they can be made to realize that agriculture today is based upon science and that agriculture needs geneticists, chemists, plant pathologists, plant physiologists and soil scientists.

He concluded by saying that if the nurserymen can help the university lead the right kind of students into agriculture and if the university can do an effective job of training them, the supply of trained personnel should come closer to meeting the demands of the industry than it ever has in the past.

NORTH JERSEY MEETINGS

Guest speaker at the meeting of the North Jersey Metropolitan Nurserymen's Association held February 20 at the Peacock House, Mountain View, was Gene Wilson, of E. I. du Pont de Nemours & Co., Inc., Wilmington, Del. He discussed in detail Du Pont's VPM, a soil fumigant and herbicide; Karmex N, an herbicide, and Arasan, a rabbit repellent and seed disinfectant. Color slides showing application and effects of these products under field conditions were also presented. Much interest in these products was indicated in a question and answer period after the talk.

March 1, the association held its annual ladies' night. The ladies were presented with corsages as they arrived, and gifts and special prizes were given after dinner. C. W. M. Hess, Jr., Hess' Nurseries, Mountain View, president of the association, introduced the county agents and other guests present, and a social program occupied the rest of the evening.

Edward S. Wyckoff, Sec'y.

FIRST prize in a nation-wide photograph contest sponsored by Cascade Pools, Trenton, N. J., was won recently by Curtis E. Wagner, landscape designer and nurseryman, Akron, O.

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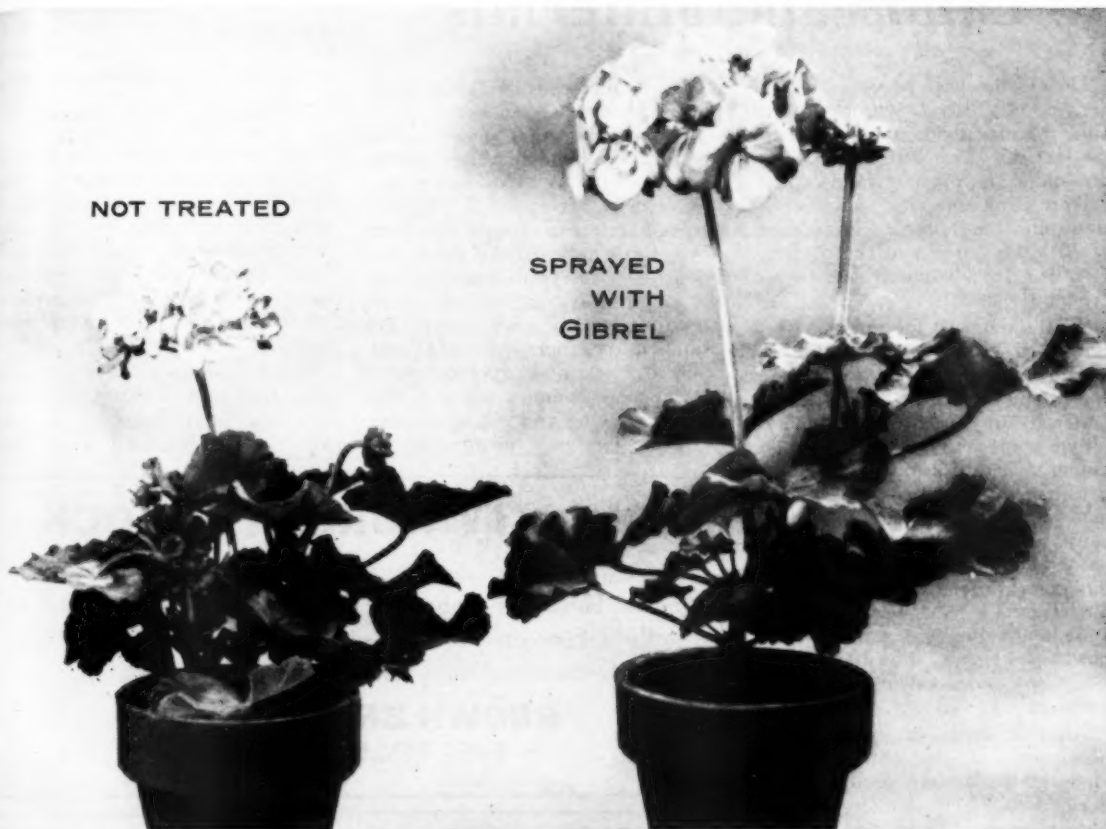
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New Growth Stimulant Saves Valuable Bench Time

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GIBREL

Here's how GIBREL speeds maturity and flowering of white geraniums. Both geraniums were the same size when one was treated three weeks before these results were obtained.

GIBREL® is ready to help you increase profits by saving time in the bench for many plants you grow. GIBREL is the new Merck-developed growth stimulant that gives you control over plants never before possible. These three practical applications of GIBREL will help you market plants days and weeks sooner than normal.

1. **BEDDING PLANTS**—seed treatment with GIBREL accelerates embryo development, germination, seedling emergence and early seedling growth.
2. **POT PLANTS**—foliar sprays of GIBREL produce faster, more vigorous growth within days. Even dormant plants respond promptly.
3. **CUT FLOWERS**—treatment with GIBREL at almost any stage of growth often speeds plant maturity and flowering. In some plants, GIBREL increases flower size and stem length, even makes flowers last longer.

GIBREL is adaptable to all good horticultural practices. It often triggers a plant's growth by supplementing its natural growth-producing substances. At practical levels, GIBREL produces a normal plant with desired characteristics.

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Please send more information about GIBREL for nursery and greenhouse use. Also send list of companies that manufacture products containing GIBREL.

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A Progress Report

Information Service for Landscape Materials

During the past 12 years a great demand for nursery stock of all kinds became evident by reason of the fact that Americans wanted and demanded appropriate landscaping. Private dwellings and public agencies, plus the factories and offices of all kinds moving to the country, required adequately landscaped grounds.

As the demand for nursery stock continued at a high level, it was often difficult or extremely time-consuming to find the required plant materials for the various projects. Often plans had to be redrawn or numerous substitutions of species or sizes had to be made. Nurseries had material which remained unsold because of the lack of knowledge of its availability. Realizing this, a number of far-sighted leaders among nurserymen, landscape architects and landscape contractors in the northeast began informal discussions to endeavor to solve this problem.

After a series of meetings and discussions of the objectives and views of the various groups, it was decided to form an organization known as the Landscape Materials Information Service. Today this service is of value to its members and could be of equal or greater value to many more.

Clearing House Function

This service was first organized in 1952 and sponsored by region I of the American Association of Nurserymen and the New York chapter of the American Society of Landscape Architects. However, this sponsorship ended January 26, 1954, at which time it was formally installed as a self-supporting, non-profit membership organization. Its purpose is to act as a clearing house for digestion and distribution of information prepared in the interests of specific types of businesses. Included are architectural and engineering firms that have landscape architectural departments, landscape architects, horticulturists, landscape contractors, nurserymen, public agencies and suppliers of

landscape materials like grass seeds, fertilizers and insecticides.

The question that arises in the mind of an individual before joining an organization is, "How can it benefit me or my company?" "Benefit" generally refers to income. But there are rewards to be derived other than financial — the various groups have the opportunity to become better acquainted with each other. For example, the contractor and landscape architect find that nurserymen have a more complex business than merely growing and selling plants.

One nurseryman member of the

L.M.I.S. did not believe that he could trace any decided increase in plant sales, but he had definitely been afforded opportunities to move surplus items that otherwise would have remained unsold. This nurseryman, knowing who the other members were, had been able to contact users of that particular material. Also, production of popular items has been more or less governed by information through this service.

Sources, Needs Listed

One company dealing in horticultural supplies advised that the semi-weekly bulletins contain valuable information regarding jobs that will need grass seeds, fertilizers, etc. By contacting the successful bidders on these jobs, enough replies were received to make the membership more than profitable.

Public agencies were rewarded since they could locate large quantities (and small quantities of scarce material) of nursery stock which

QUALITY NURSERY STOCK

Fruit trees including dwarfs and standard 5-N-1 Apple, Indian Summer Raspberries, ornamental trees and shrubs in variety. *Euonymus fortunei* vegetus in quantity. New trade list and specimen (dig yourself). List upon request.

BROWN BROTHERS CO.
EAST ROCHESTER, N. Y.

QUALITY STOCK

Hemlock

Pfitzer Juniper — Globe Arborvitae
For inside Japanese Beetle area.

On Connecticut Highway No. 140

Visitors Welcome

E. NORMAND MYERS

Nurseryman
Broad Brook, Conn.

FOR 57 YEARS

Our business has been growing

Rhododendrons
Azaleas

Perennials, Roses
All Nursery Items

BOBBINK NURSERIES, INC.
586 Paterson Ave.
E. RUTHERFORD, N. J.

CANADIAN HEMLOCK BALSAM FIR

Northern-Grown

		Per 100	Per 1000
2 to 4 ins., S.	.....	\$ 2.00	\$ 10.00
3 to 6 ins., S.	.....	3.00	17.50
6 to 9 ins., S.	.....	5.00	30.00
9 to 12 ins., S.	.....	9.00	70.00
12 to 18 ins., S.	.....	12.50	100.00
18 to 24 ins., S.	.....	30.00	.....

Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, evergreens on request.

WILLIAM CROSBY HORSFORD
Charlotte, Vt.

MIST-O-GATION, INC. NOW OFFERS

Outdoor Rooted Cuttings

1 and 2-yr. transplants to the trade. List upon request.

Propagation surplus, due to more efficient propagation methods, principally the use of fog. See our equipment advertisement in this issue.

MIST-O-GATION, INC.
Middletown, Del.

PLUMFIELD NURSERIES, Inc.

P. O. Box 471

FREMONT, NEB.

Write for Spring Wholesale Catalog

TERMS: Cash unless satisfactory credit is established. Packing at cost.

DECIDUOUS SEEDLINGS:	Per 100	Per 1000
<i>Acer ginnala</i> (Ginnala Maple) 12 to 18 ins.	\$ 4.00	\$ 35.00
<i>Acer negundo</i> (Box Elder) 12 to 18 ins.	2.40	20.00
6 to 12 ins.	1.40	12.00
<i>Amelanchier alnifolia</i> (Juneberry) 6 to 9 ins.	4.50	40.00
4 to 8 ins.	3.20	28.00
<i>Ampelopsis veitchii</i> (Boston Ivy) 3/16-in. cal., S.	12.00	100.00
Planters, 2/16-in. cal.	5.50	50.00
<i>Caragana arborescens</i> 6 to 9 ins.	1.70	15.00
4 to 6 ins.	1.25	10.00
<i>Celtis occidentalis</i> (Hackberry) 2 to 3 ft.	6.50	60.00
6 to 12 ins.	1.80	15.00
<i>Cercis canadensis</i> (Redbud) 6 to 9 ins.	4.50	40.00
4 to 6 ins.	3.50	30.00
<i>Clematis ligusticifolia</i> 8 to 15 ins., 1-yr.	4.50	40.00
<i>Colutea arborescens</i> (Bladder Senna) 2 to 3 ft.	4.00	55.00
18 to 24 ins.	5.00	45.00
12 to 18 ins.	4.00	35.00
<i>Cornus stolonifera</i> (Dogwood) 18 to 24 ins.	5.00	55.00
12 to 18 ins.	5.00	45.00
6 to 12 ins.	3.00	25.00
<i>Cotoneaster acutifolia</i> 6 to 12 ins.	5.00	45.00
5/32-in. cal., approx. 12 to 18 ins.	8.00	75.00
<i>Elaeagnus angustifolia</i> (Russian Olive) 6 to 12 ins.	2.40	20.00
<i>Elaeagnus commutata</i> (Silverberry) 2 to 3 ft.	9.00	85.00
18 to 24 ins.	6.50	60.00
<i>Fraxinus lanceolata</i> (Green Ash) 3 to 4 ft.	5.60	50.00
2 to 3 ft.	4.00	35.00
18 to 24 ins.	3.20	28.00
12 to 18 ins.	2.40	20.00
<i>Gleditsia triacanthos inermis</i> (Thornless Honey Locust) 3 to 4 ft.	8.00	75.00
2 to 3 ft.	5.00	45.00
1/4-in. cal.	3.50	30.00
<i>Wild River Grape</i> No. 1	3.50	30.00
No. 2	2.50	20.00
<i>Lonicera tatarica</i> (Honeysuckle) 6 to 9 ins.	3.20	28.00

HARDY APPLE UNDERSTOCKS FOR THE NORTH

	Per 100	Per 1000
<i>Malus Columbia</i> No. 1	\$5.50	\$50.00
No. 2	4.50	40.00
<i>Malus Hope</i> No. 1	5.50	50.00
No. 2	4.50	40.00
No. 3	3.00	25.00
<i>Malus Manchurica</i> No. 1	5.50	50.00
No. 2	4.50	40.00
No. 3	3.00	25.00
<i>Malus Rosybloom</i> No. 1	5.50	50.00
No. 2	4.50	40.00

	Per 100	Per 1000
<i>Morus tatarica</i> (Russian Mulberry) 18 to 24 ins.	\$ 3.20	\$ 28.00
2 to 3 ft.	4.00	35.00
6 to 12 ins.	1.40	12.00
<i>Prunus americana</i> (Native Plum) 1/4-in. cal.	4.50	40.00
No. 1	4.00	35.00
No. 2	2.90	25.00
No. 3	2.10	18.00

	Per 100	Per 1000
<i>Prunus armeniaca</i> (Chinese Apricot) 2 to 3 ft.	\$ 8.00	\$ 75.00
18 to 24 ins.	6.50	60.00
6 to 12 ins.	2.50	20.00

	Per 100	Per 1000
<i>Prunus besseyi</i> (Western Sand Cherry) 2 to 3 ft.	8.00	75.00
18 to 24 ins.	5.50	50.00
12 to 18 ins.	3.50	30.00

	Per 100	Per 1000
<i>Prunus japonica</i> 18 to 24 ins.	8.00	75.00
6 to 12 ins.	4.50	40.00
2 to 3 ft., br.	27.00	240.00

	Per 100	Per 1000
<i>Prunus melanocarpa</i> (Chokecherry) 5/32-in. cal., approx. 12 to 18 ins.	5.50	50.00
6 to 12 ins.	4.50	40.00

	Per 100	Per 1000
<i>Prunus padus</i> (Mayday) 6 to 12 ins.	4.00	35.00
5/32-in. cal., approx. 10 to 18 ins.	5.50	40.00

	Per 100	Per 1000
<i>Prunus serotina</i> (Wild Black Cherry) 2 to 3 ft.	5.50	50.00
18 to 24 ins.	4.50	40.00
12 to 18 ins.	3.50	30.00
6 to 12 ins.	2.50	20.00

	Per 100	Per 1000
<i>Prunus tomentosa</i> —Negative From seed gathered from virus-free plants. 2 to 3 ft.	15.00	130.00
18 to 24 ins.	9.50	90.00

	Per 100	Per 1000
<i>Prunus tomentosa</i> (Nanking Cherry) 2 to 3 ft.	14.00	120.00
18 to 24 ins.	8.50	80.00
12 to 18 ins.	6.00	55.00

	Per 100	Per 1000
<i>Pyrus ussuriensis</i> (Korean Pear) No. 1	5.50	50.00
No. 2	4.50	40.00

	Per 100	Per 1000
<i>Quercus palustris</i> (Pin Oak) 3 to 4 ft.	20.00	180.00
2 to 3 ft.	15.00	140.00
18 to 24 ins.	12.00	110.00
12 to 18 ins.	8.50	80.00
9 to 12 ins.	7.00	65.00
6 to 9 ins.	5.50	50.00

	Per 100	Per 1000
<i>Quercus rubra</i> (Red Oak) 18 to 24 ins.	12.00	110.00
12 to 18 ins.	8.50	80.00
6 to 9 ins.	5.50	50.00

	Per 100	Per 1000
<i>Rosa multiflora</i> 1/4-in. cal.	5.00	45.00
8 to 15 ins.	2.70	22.00

	Per 100	Per 1000
<i>Rhus canadensis</i> (Sumac), three-leaved 6 to 12 ins.	3.50	30.00

	Per 100	Per 1000
<i>Robinia pseudoacacia</i> (Black Locust) 2 to 3 ft.	4.00	35.00
3 to 4 ft.	5.50	50.00
18 to 24 ins.	3.20	28.00

	Per 100	Per 1000
<i>Syringa villosa</i> 6 to 12 ins.	5.00	45.00

	Per 100	Per 1000
<i>Syringa vulgaris</i> (Common Lilac) 6 to 9 ins.	3.50	30.00
4 to 6 ins.	2.50	20.00

	Per 100	Per 1000
<i>Ulmus americana</i> (American Elm) 2 to 3 ft.	4.00	35.00
18 to 24 ins.	3.20	28.00

	Per 100	Per 1000
<i>Ulmus pumila</i> (Chinese Elm) 2 to 3 ft.	4.50	40.00
6 to 12 ins.	1.40	12.00

	Per 100	Per 1000
<i>Shepherdia argentea</i> (Buffalo Berry) 6 to 12 ins.	4.00	35.00

Send us your list for quotations on large quantities.

LINING-OUT EVERGREENS:

	Each	Per 10	Per 100	Per 1000
Bare-root.				
<i>Admirabilis Creeping Juniper</i> 12 to 15 ins., TTT.	\$0.75	\$0.70	\$0.65	
<i>Andorra Juniper</i> 15 to 18 ins., TTT.	.95	.90	.85	
9 to 12 ins., TTT.	.60	.55	.50	
<i>Pfitzer Juniper</i> 15 to 18 ins., TTT.	1.10	1.00	.90	
12 to 15 ins., TTT.	.85	.80	.75	
9 to 12 ins., TTT.	.70	.65	.60	
6 to 9 ins., TTT.	.45	.40	.35	
<i>Hetz Juniper</i> 12 to 15 ins., TTT.	.85	.80	.75	
9 to 12 ins., TTT.	.70	.65	.60	
6 to 9 ins., TTT.	.45	.40	.35	
<i>Savin Juniper</i> 18 to 24 ins., TTT.	1.45	1.35	1.25	
15 to 18 ins., TTT.	1.10	1.00	.90	
12 to 15 ins., TTT.	.85	.80	.75	
9 to 12 ins., TTT.	.70	.65	.60	
<i>Thuja americana pyramidalis</i> 18 to 24 ins., TTT.	1.45	1.35	1.25	
12 to 15 ins., TTT.	.85	.80	.75	
9 to 12 ins., TTT.	.70	.65	.60	
<i>Woodward Globe Arborvitae</i> 9 to 12 ins., TTT.	.70	.65	.60	
6 to 9 ins., TTT.	.45	.40	.35	

CANNED EVERGREENS:

	Each	Per 5	Per 100
<i>Andorra Juniper</i> 1-gal. can	\$1.25		\$1.10
<i>Irish Juniper</i> 1-gal. can	1.25		1.10
<i>Juniperus virginiana</i> 1-gal. can	1.40		1.30
18 to 24 ins.	1.50		1.40
2 to 3 ft.	1.50		1.40
<i>Koster Juniper</i> 1-gal. can	1.45		1.35
<i>Taxus cuspidata</i> 1-gal. can	1.50		1.40
<i>Woodward Globe Arborvitae</i> 1-gal. can	1.25		1.10
<i>Euonymus alatus compactus</i> 1-gal. can	1.00		.90

Canned evergreens packed 5 to a basket.

SHADE TREES:

	Per 10	Per 100
<i>Ash, Green</i> 1 1/2-in. cal.	\$45.00	\$425.00
1 1/2-in. cal.	35.00	325.00
8 to 10 ft.	25.00	225.00
<i>Crab Apple, Hopa</i> 6 to 8 ft.	16.50	150.00
<i>Locust, Honey, Thornless</i> 1 1/2-in. cal.	43.00	400.00
8 to 10 ft.	33.00	300.00
6 to 8 ft.	25.00	225.00
<i>Maple, Soft</i> 2-in. cal.	55.00	500.00
1 1/2-in. cal.	35.00	325.00
1 1/2-in. cal.	28.00	250.00
8 to 10 ft.	22.00	200.00

SHRUBS:

	Per 10	Per 100
<i>Cydonia japonica</i> 2 to 3 ft.	\$5.50	\$50.00
18 to 24 ins.	4.40	38.50
<i>Honeysuckle, Carlton, red</i> 3 to 4 ft.	6.50	60.00
2 to 3 ft.	5.50	50.00
<i>Hydrangea, P. G.</i> 18 to 24 ins.	5.50	50.00
<i>Lilac, rothomagensis</i> 18 to 24 ins.	5.00	45.00
<i>Lilac, villosa</i> 18 to 24 ins.	4.50	40.00
12 to 18 ins.	2.90	25.00
<i>Spiraea froebelii</i> 2 to 2 1/2 ft.	5.50	50.00
18 to 24 ins.	4.50	40.00
15 to 18 ins.	4.00	35.00
<i>Spiraea multiflora</i> 3 to 4 ft.	6.50	60.00
2 to 3 ft.	5.50	50.00
18 to 24 ins.	4.50	40.00
<i>Spiraea vanhouttei</i> 2 to 3 ft.	4.50	40.00
18 to 24 ins.	3.50	30.00
12 to 18 ins.	2.60	22.00

PROMPTLY AVAILABLE.

BENCH ROOT GRAFTS

FLOWERING CRAB APPLE

Almey, pink (\$25.00 per 100)
 Atrosanguinea, carmine
 Eleyi, purple-red
 Floribunda, pink and white
 Hopa, pink
 Prince George, double pink
 Parkman, pink
 Flame, white
 Redfield, red
 Red Silver, red
 Spectabilis, pink and white
 Theifera, pink and white

FLOWERING QUINCE

Charming, shell-pink
 Coral Beauty, coral
 Snow, white
 Stanford Red, red

HYBRID FRENCH LILACS

Alice Eastwood, pink
 Charles X, claret-red
 Paul Hariot, purple
 Paul Thirion, claret-red
 Lucie Baltet, pink
 President Viger, blue
 President Lincoln, blue
 Mme. A. Buchner, pink
 Mme. Chas. Souchet, pale blue
 Mme. Lemoine, white
 Firmament, blue
 Vestale, white
 Ellen Willmott, white

All above root grafts, \$18.00 per 100; \$175.00 per 1000.

Pink Dogwood
 Viburnum juddi
 Dwarf Bartlett Pear

All above, \$25.00 per 100.

JAPANESE CHERRIES

Weeping Pink, single
 Kwanzan, double pink
 All cherries, \$25.00 per 100;
 \$225.00 per 1000.

FLOWERING PLUM

Prunus Thundercloud, red leaves
 Prunus triloba, double pink

TERMS: Cash earns free packing or 25 per cent deposit, balance C.O.D.

Complete list on request.

RUMMEL NURSERIES
 Pompton Plains 1, N. J.

they would not have otherwise known about. This saved much telephoning, letter writing and travel—a great saving of time and money.

One Ohio nurseryman said, "A number of advantages of this organization occur to us, and they are advantages which no similar organization has been able to provide for us." He went on to say that there has been an obvious increase of sales as a result of listing plant materials in the nursery inventory reports. Several items which had no substantial local market were moved into the east as a result of this listing.

Inventory Report

The nursery inventory report is an alphabetical listing of plant materials by sizes that are available from the member nurserymen of the L. M. I. S. For instance, there were 10,750 Abelia grandiflora, two to three feet, available from eight member nurseries; 12,940 Norway maples, eight to 10 feet, from 12 members, and 20,500 sweet fern (and who would have believed this?) available in three nurseries. The list covers nearly 50 pages, 8½x11 inches, compilation of which takes considerable time. This report is issued twice a year, in February and August. It lists suppliers, landscape contractors and members and contains advertisements and other pertinent information.

Primarily, the bulletins list new plant quantities and announce planned and contracted landscape projects of the area, including housing, highways, parks, public and private buildings, etc.

Analyzing the sustained demand for certain species and sizes taken from past public works plans and future planned consumption has been helpful in the planting and production plans of some nurseries. This information is compiled into a spring summary of plant material requirements from public agencies.

At present, membership is geographically held to the New England states, New York, New Jersey, Pennsylvania, Delaware, Maryland and Ohio. There is a membership fee for engineering firms, landscape architects, nurserymen, public agencies, horticulturists, landscape contractors and suppliers. For information, write to Valteau Curtis, chairman and director of the service, Callicoon, N. Y.

Members state that the L. M. I. S. has been a worthwhile endeavor in the eastern region and feel that similar groups could be of equal value

SURPLUS SALE

30,000 Shade Tree Liners

	Per 100	Per 1000
NORWAY MAPLE (Acer platanoides) 1-yr., S., 5 to 10 ins. \$10.00 \$50.00		
HONEY LOCUST , Thornless (Gleditsia triacanthos inermis) 1-yr., S., 6 to 12 ins. 8.00 40.00		
PIN OAK (Quercus palustris) 1-yr., S., 6 to 12 ins. 12.00 60.00		

NOTE: Our plants are first-quality stock. Will be freshly dug from the field, not from storage. Please order now; late spring orders will not be accepted.

Cash with order earns 2% discount and free packing.

BROOKFIELD GARDENS
 U. S. Rt. 46
 Delaware, N. J.

ROSEBUSHES

Grown Right — Stored Right
 . . . to reach you full of vitality.

✓ Service

✓ Quality

✓ Satisfaction

Write for list.

SOMERSET ROSE NURSERY, INC.
 P. O. Box 608
 New Brunswick, N. J.

EVERGREENS

300 acres of choice Evergreens

ready for immediate resale

Write for list.

GARDNER'S NURSERIES, Inc.
 ROCKY HILL, CONN.

ORNAMENTAL EVERGREENS

Trees and Shrubs

BAGATELLE NURSERY
 P. O. Huntington Station, N. Y.

Prevent Weeds

with

CRAG

BRAND

Sesone

HERBICIDE-1

Use this sample to kill weed seeds as they sprout.
See for yourself how CRAG Sesone:

SAVES LABOR: Reduces hoeing, cultivating.

INCREASES YIELDS: Stops competition from weeds for plant food and moisture.

IS SAFE: Does not damage foliage nor harm most well-established plants.

Is successfully used by thousands of growers for preventing weeds in Nursery Stock, Strawberries, Peanuts, and certain other crops.

This Sample
will treat
200 square feet
of soil

DIRECTIONS ON BACK



Get Your Free Sample Now!

Try a free sample of CRAG Sesone on 200 square feet of your nursery stock established a year or more. A trial will convince you that the easiest, least expensive, and most satisfactory way to control weeds is to prevent them from getting a start.

CRAG Sesone prevents weed seeds from germinating—eliminates most of your expensive hoeing and hand-weeding.

You spray Sesone right over the tops of most nur-

series plants established a year or more. It will not burn the leaves of plants listed on the label because Sesone does not become active until it makes contact with moist soil. One application following a clean cultivation keeps out most annual and broadleaf weeds for three to six weeks. Sesone can be used in spring, summer, or fall, and it will not build-up in the soil.

Read the label on the package. See how Sesone stops weeds before they start.

Mail this coupon
for your
Free Sample

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and "Union Carbide"
are trademarks of
Union Carbide Corporation.

CRAG Agricultural Chemicals Union Carbide Chemicals Company

Division of Union Carbide Corporation
30-20 Thomson Ave., Long Island City 1, N. Y.

Please send me a free sample of CRAG Sesone, enough to treat 200 sq. ft.
I grow ☐ ornamental shrubs ☐ forest trees ☐ bulbs and perennial flowers.

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ADDRESS _____

CITY _____

STATE _____

**UNION
CARBIDE**

CANALE'S FOREST NURSERY

SHELOCTA, PA.

		Per 100	Per 1000			Per 100	Per 1000			Per 100	Per 1000
SCOTCH PINE				DOUGLAS FIR				WHITE SPRUCE			
2-yr., 2 to 4 ins.		\$ 2.50	\$12.50	3-yr., 2 to 4 ins.		\$ 4.00	\$20.00	2-yr., 2 to 4 ins.		\$ 3.00	\$15.00
2-yr., 3 to 6 ins.		4.00	20.00	NORWAY SPRUCE				2-yr., 3 to 6 ins.		5.00	25.00
2-yr., 4 to 8 ins.		5.00	25.00	2-yr., 2 to 4 ins.		3.00	15.00	(2-2), 4 to 8 ins.		10.00	50.00
(2-1), 1 to 3 ins.		4.00	20.00	2-yr., 4 to 8 ins.		5.00	25.00	(2-2), 8 to 12 ins.		15.00	75.00
(2-1), 3 to 5 ins.		7.00	35.00	(2-2), 5 to 8 ins.		10.00	50.00	(2-2), 10 to 16 ins.		25.00	....
(2-2), 5 to 10 ins.		10.00	50.00	(2-2), 8 to 12 ins.		15.00	75.00				
(2-2), 10 to 15 ins.		15.00	75.00	(2-2), 10 to 16 ins.		25.00	....			
(2-2), 15 to 18 ins.		25.00	....	BLUE SPRUCE							
RIGA SCOTCH PINE				3-yr., 2 to 4 ins.		4.00	20.00	<p>We have had many requests in the past for small seedlings that a person may secure at a low price and then put these in transplant beds for a few years prior to field planting. For these people and for others who have the same idea we are now for the first time listing this small size at a very low figure. We do not recommend these for direct field planting except in areas where they have proven themselves. The size of the seedling seedlings is 1 to 2-in. No discount. Net price.</p> <p>SCOTCH PINE, \$7.50 per 1000 BLUE SPRUCE, \$10.00 per 1000</p>			
2-yr., 2 to 4 ins.		3.00	15.00	3-yr., 4 to 8 ins.		8.00	40.00				
2-yr., 4 to 8 ins.		5.00	25.00	(2-2), 3 to 6 ins.		10.00	50.00				
AUSTRIAN PINE				(2-2), 8 to 12 ins.		30.00	....			
2-yr., 3 to 6 ins.		5.00	25.00	(2-2-3), 10 to 12 ins., each		75c	....			
AMERICAN RED PINE				(2-2-3), 12 to 18 ins., each		\$1.00	....			
2-yr., 2 to 4 ins.		4.00	20.00								

Write now or phone Elderton, Pa., Fleetwood 4-2461 (Night Phone, Elderton, Pa., Fleetwood 4-3505). 50 at 100 rate, 500 at 1000 rate, 5% discount on orders of 25,000 or more. Orders must be accompanied by a down payment of 25% and balance before shipment or order will be sent C.O.D. Some items are in limited supply. ORDER EARLY and avoid disappointment.

in such other areas as the midwest, west coast and lower south.

NURSERY CONSERVATION

[Concluded from page 16]

additional sites at the end of terrace outlets to protect similar gully heads and prevent them from cutting into a field road. At one of these structures a diversion dike is built to funnel water from the slope into the structure. This diversion area, actually a large, broad terrace, was built wide enough to serve as a field road and makes it possible to cross the grassy terrace outlet without damaging the sod.

One of the most interesting features of the nursery conservation plan is the crop rotation. The Baileys decided on a 9-year rotation whereby the land is planted to nursery stock for six years, then to oats seeded to alfalfa and brome that would be left for hay for two years. The oats and hay are harvested, except for the last cutting of alfalfa the second year. This growth is plowed under for green manure.

The six years of nursery crops consist of stock that is on the land for periods of two, three, four, five and six years. Very few 1-year crops are grown. The 5 and 6-year crops are spruce and pine. The 2, 3 and 4-year crops are other ornamentals, shrubs, hardwoods and fruit trees.

Commercial fertilizers are used on the 5 and 6-year nursery crops if the plants show a need for it. The first nursery stock goes into a field over a legume that has been plowed down. Barnyard manure at the rate of 40 tons per acre is applied ahead of each nursery crop unless preceded

QUALITY LINERS

	Per 100
Viburnum carlesii	
4 to 12 ins., transplants.....	\$25.00
American Holly	
6 to 10 ins., transplants.....	27.50
French Hybrid Lilacs, best varieties	
4 to 8 ins., grafts.....	27.50
8 to 15 ins., grafts.....	37.50
Pink-flowering Dogwood	
10 to 15 ins., grafts.....	75.00

Send for new spring list.

POSSUM HOLLOW NURSERIES

6909 Henley St.
Philadelphia 19, Pa.

QUALITY LINERS

In Wide Assortment
NURSERY SALES, INC.
525 Stevens Ave., P. O. Box 295
RIDGWOOD, N. J.
Gl. 4-6848

DECIDUOUS AND EVERGREEN TREES AND SHRUBS

Outstanding assortment.
Write for Wholesale Price List.
LOVETT'S NURSERY, INC.
LITTLE SILVER, N. J.

TAXUS

Upright, 6 to 14 ft.
Also Other Varieties of Taxus.
BULK'S NURSERIES
BABYLON, L. I., N. Y.

NURSERY STOCK

	Per 100	Per 1000
Red-leaved Barberry		
2-yr., S., 9 to 12 ins..	\$ 6.50	\$50.00
2-yr., S., 12 to 18 ins..	10.00	75.00
Row run, 9 to 18 ins..	7.50	60.00
Cornus florida (White Dogwood)		
1-yr., S., budding size.	6.00	50.00
1-yr., S., below budding size	4.50	35.00

Ask for list.

BROUWER'S NURSERIES

Box 25 New London, Conn.

HOLLIES

One of the most complete collections of the better named varieties of American and English holly, 3 to 6-inch pots. Field plants, 2 to 8 ft. Send for list.

ANGELICA NURSERIES

R. D. 1 MOHNTON, PA.

QUALITY STOCK GROWN BY US

Roses, Azaleas, Evergreens, California Privet, Green Barberry, Red Barberry (fine strain).
Seedlings and transplants.
DANEGGER'S HI-WAY NURSERY, INC.
P. O. Box 336 MILFORD, DEL.

BOULEVARD NURSERIES

Newport, R. I.

- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

by sod. Thus, some land gets manure two years after sod, some three and some four years after sod. No manure is used on the 5 and 6-year spruce and pine stock. A light application of manure is used on the hay land. Each year 25 acres of green manure crop, mostly Sudan grass, is plowed down and 40 acres of cover crops (mostly rye) are used. The Baileys

are fortunate in being close to the South St. Paul stockyards, an excellent source for manure.

Vincent Bailey says that he is planning to try an 8-year rotation of one year grain seeded to alfalfa and brome, for one year of hay, with all material to be chopped and left on the field, and then six years of nursery stock with manure fertilizing.

WANTED!

A New Home for 25,000

ILEX CRENATA SEEDLINGS

PRICES

B&B STOCKS*

Sheared Specimens
F.O.B. SEMMES, ALA.

	Per 10	Per 100
10 to 12 ins.	\$ 9.00	\$ 80.00
12 to 15 ins.	11.00	100.00
15 to 18 ins.	13.00	120.00
18 to 24 ins.	18.00	160.00
24 to 30 ins.	22.00	200.00
30 to 36 ins.	25.00	220.00

We also have a nice lot of Ilex Crenata Rotundifolia in sizes 12 to 15 ins., 15 to 18 ins. and 18 to 24 ins. The same prices prevail as on Ilex Crenata seedlings, above.

Write for Our Price List on
Field-grown and Container Stock.

*TRUCK SERVICE

We are able to offer service within a radius of 100 to 2,000 miles from Semmes. Charges average much less than railroad rates, with delivery at your door. If interested, phone or write for further information.

Telephone Mobile, GArden 6-8925

Tom Dodd
Nurseries, INC.

SEMMES, ALABAMA

U S. HIGHWAY 98, NEAR MOBILE

"America's Azalea-Camellia Center"



Photo taken July, 1957, showing a field of Ilex Crenata seedlings. Note compactness and uniformity.

LARGE LANDSCAPE MATERIAL

- 14 *Amelanchier*, 15 to 18 ft.
 5 *Biota aurea conspicua*, 12 to 14 ft.
 25 *Biota aurea nana*, 2½ to 3 ft.
 11 *Biota elegantissima*, 10 to 12 ft.
 165 *Cercis canadensis*, 10 to 16 ft.
 90 *Chamaecyparis plumosa aurea*, 4 to 5 ft.
 30 *Chamaecyparis pisifera aurea*, 8 to 12 ft.
 10 *Chamaecyparis filifera aurea*, 7 to 8 ft.
 24 *Chamaecyparis obtusa crispata*, 9 to 12 ft.
 60 *Chamaecyparis squarrosa veitchii*, 10 to 14 ft.
 15 *Chamaecyparis nootkatensis pendula*, 8 to 9 ft.
 25 *Crataegus phaenopyrum (cordata)*, 15 to 18 ft.
 4000 *Cornus florida*, 7 to 20 ft.
 8 *Halesia tetraptera*, 12 to 15 ft.
 11 *Juniperus canaerti*, 18 to 20 ft.
 18 *Juniperus depressa plumosa*, 6 to 8-ft. spread
 10 *Juniperus heteri*, 7 to 8-ft. spread
 6 *Juniperus pfitzeriana compacta*, 4 to 5 ft.
 20 *Juniperus virginiana glauca*, 14 to 18 ft.
 12 *Magnolia*, mixed, 9 to 12 ft.
 9 *Picea densata glauca*, 14 to 18 ft.
 7 *Picea koyamai*, 14 to 16 ft.
 30 *Picea pungens*, 14 to 20 ft.
 30 *Pinus mugho*, 4 to 10-ft. spread
 6 *Pinus strobus*, 15 to 16 ft.
 16 *Pinus thunbergii*, 12 to 14 ft.
 15 *Rhododendron maximum*, 6 to 8 ft., large clumps
 10 *Rhododendron carolinianum*, 4 ft., clumps
 85 *Spiraea vanhouttei*, 5 to 6 ft.
 600 *Syringa hybrid seedlings*, 6 to 9 ft.
 560 *Taxus capitata*, 4 to 7 ft.
 30 *Taxus browni*, 5 to 6 ft.
 325 *Taxus hicksii*, 5 to 8 ft.
 9 *Taxus repandens*, 6 to 7-ft. spread
 1240 *Viburnum carlesii*, 2 to 5 ft.

SHADE TREES

- 260 Pin Oak, 3 to 6-in. cal.
 52 Sweet Gum, 4 to 7-in. cal.
 45 European Beech, 3 to 5-in. cal.
 60 Red Oak, 4 to 7-in. cal.
 12 Sugar Maple, 3 to 7-in. cal.

GEORGE F. BLOOMER NURSERY
 Rt. 69 Flemington, N. J.



COVER ILLUSTRATION

Acer platanoides erectum

The erect Norway maple, *Acer platanoides erectum*, goes by a variety of names and forms since its origin in the Rochester parks several years ago. There seem to be many forms, but this type has the narrowest appearance and most upright-branching habit. Other names that have been applied are upright Norway maple and improved columnar Norway maple.

The columnar Norway maple, *Acer platanoides columnare*, is also of upright habit, but seems eventually to evolve into a form that is more comparable to many sugar maples. This fact is not bad, but causes the tree to require more space than the subject which appears on the cover. Occasionally, a so-called columnar Norway maple, after several years, loses some of its narrow form and in time is not too different from the species. Even seedling forms of the Norway maple vary, and such variations can sometimes be evidenced by observing a street planting in winter when the structure of the trees is more obvious. Occasionally, four or five trees will vary slightly in their form and branching habit, some being quite upright.

The leaves on the erect Norway maple may seem exceedingly large or of a darker green than other types, but this is often due to the smaller or narrower structure of the tree.

Uses for Tree

There is a definite place for trees of this narrow growth habit. Narrow streets should not be overshadowed with foliage, preventing even the street lights from doing their jobs. Narrow trees may be expensive solutions, but they can screen undesirable scenes or buildings and withstand excessive winds. Overplanting with these trees may give a telephone pole effect, and no one wishes to be accused of doing this — not even a utility company.

The erect Norway maple in time develops a different form from that of the young tree on the cover. The head of the older tree will appear to have parallel sides, and this same head can be regulated above the main trunk to any height one wishes. This height is, of course, determined by the tree's position in relation to traffic, pedestrian or otherwise.

Trees of this form are here to stay, more because of necessity, probably, than any other reason. C. E. L.

SUGAR MAPLE

for

Streets—Parks—Forests

Long Life—Strength—Coloring

Collected. Nursery-Grown.

Any quantity available.

½ to 12-in. cal.

Beech, Ash, Red Maple, Red

Oak, Birch and Shadblow

also available.

R. H. ROGERS NURSERY

COOPERSTOWN, N. Y.

ILEX CRENATA CONVEXA

(*Ilex bullata*)

Owing to our unusual success in propagating this desirable item, we offer it at a very low price. Over 150,000 in stock. It is a very choice, very hardy, low-growing evergreen with shiny, dark green, convex, boxwood-like leaves. Grows fast into money, up to 2 ft., and there slows down. Ultimate size 3 ft. high and 4 ft. wide. Easier to grow than Yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect, low hedge.

Each
 6 to 8 ins., 2-yr., T.15c
 8 to 10 ins., 2-yr., T.20c

PIERIS JAPONICA

Each
 4 to 6 ins., T.15c
 6 to 8 ins., T.20c

JAPANESE BOXWOOD

Apple-green leaves; does well in sun or shade. Will tolerate dense shade. Very rapid-growing, good for foundation planting.

6 to 8 ins., 2-yr., T. \$10.00 per 100

Send for List of Unusual Plants

ALANWOLD NURSERY
 NESHAMINY, Bucks Co., PA.

DWARF FRUIT TREES

Hardy, northern-grown, 1-year-old trees. Grafted on Malling stocks No. II, IV, VII and IX. Guaranteed free from insect pests or plant disease. Backed by more than 100 years of Leuthardt family experience in dwarf fruit trees. Send for prices. State your needs, soil conditions and varieties desired.

ALSO ESPALIER TRAINED FRUIT TREES

HENRY LEUTHARDT

Port Chester • New York

Sell the **NEW FERTILEZE** LINE

FOR FAST TURNOVER AND REPEAT SALES

America's only Complete Line of Soluble Plant Foods and Applicators

3 OUTSTANDING PLANT FOOD APPLICATORS

FERTILEZE Soluble PLANT FOOD

ACCLAIMED
by 1000's as
the world's
most useful
garden tool

FLOW MIXER



Your customers will appreciate how this life-time tool thoroughly mixes plant food, hydrated lime, and other materials—they will marvel at its sheer functional beauty—they will be amazed at the results they get—but most of all they will appreciate how it takes the work out of fertilizing and puts the fun in gardening.

Operates on any water pressure—any distance—no moving parts—and is unconditionally guaranteed. Don't miss the boat—stock the Flow Mixer.

For Results—
Get to the Roots—

ROOT FEEDER

Professional quality but priced for any home gardener. Has heavy-duty $\frac{1}{2}$ " (O.D.) steel shaft, $2\frac{1}{2}$ ft. long, machined aluminum handle—sharp, easy-to-insert tooled steel point. Quick cut-off stainless steel valve. Six-way spray won't clog.

Your customers will use the root feeder alone to irrigate—with the Flow Mixer to apply plant foods or pesticides deep down—when they are needed—where they are needed. Take one out of stock and use it yourself to keep that favorite tree or shrub in perfect health this year.

POSITIVE
OFF-ON
VALVE

HEAVY-DUTY
STEEL SHAFT

SIX-WAY
ORIFICE

STEEL
POINT

"Jet-Action" HAND SPRAY

Feeds as
you water



Meets the need for a good simple-to-operate hand sprayer. Applies plant food and other materials quickly, easily, without mess and waste. Not plastic—not pot metal but a machined aluminum head that won't rust. 3-speed brass control valve for uniform application. To operate, your customer just fills the pint-jar glass container, attaches unit to hose, turns on water, and sprays life-giving plant food. For foliar or regular feeding of anything that grows. Complete instructions right on the container. Packaged in attractive multi-colored self-displaying box.



18-POUND
ECONOMY DRUM



12-OUNCE
POLYETHYLENE
BAG



1-POUND
CAN

Package Sizes:

12-oz. Poly Bag
1-lb. cans
'Handy Dozen' —
twelve 12-oz. bags
18-lb. "Economy" Drum
36-lb. "Suburban Drum"
60-lb. "Estate" Drum

A small space—
Big Volume Item

More than just the basic plant food—also contains 14 other elements in a balanced formula that leading soil research chemists say is necessary for proper plant growth and health.

Your customer doesn't wait, worry, or guess when you recommend Fertilize—It's quick acting, immediately soluble, immediately available to the plant. You can see the difference often within 48 hours—your customers get top results—they buy—and buy again.

Fertilize can be applied in many ways—by dipping, spraying, sprinkling, or with one of the Fertilize precision-engineered applicators shown at the left.

Small sizes are packaged in multi-colored self-selling packages—bulk sizes in economy drums.

Fertilize is not a promotional growth stimulant—not a wonder drug—it is a pure, concentrated balanced plant food with all the essential elements—just what Mother Nature intended to make plants grow—fast!

OFFER A "PACKAGE DEAL" FOR HIGHER UNIT SALES BIGGER PROFITS

A new, more profitable way to sell Plant Food and Applicators



SUPER GARDENER KIT

Contains all your customer needs for correct feeding of everything that grows. Includes: 1—automatic Flow Mixer, 1—Root Feeder, 10 lbs. of hydrated lime, 12-12 oz. bags of Fertilize, 1—soil test outfit and instructive Plant Feeding Guide. Sell the Super Gardener—give your customers a savings—and make more money yourself.



"TRY-IT" KIT

Get them started on the "Try-It" Kit now—step them up to the Super Gardener Kit later. "Try-It" contains six 12-oz. "Poly" bags of Fertilize, one "Jet-Action" Hand Sprayer and the instructive Plant Feeding Guide. Packaged in multi-colored self-displaying carton.

FERTILEZE

Division of Tennessee Fabricating Company

1606 GRIMES STREET

MEMPHIS, TENNESSEE

Attention...

LAWN SERVICE DEPARTMENTS

Use Fertilize for top results! Put the Flow Mixer and Root Feeder to work and save hours of labor. Start by writing for special "Professional User Information" and bulk plant food price list.

NURSERYMEN

You'll find Fertilize the highest quality soluble plant food—perfect for feeding all nursery stock and trees—by any method of application, and especially with irrigation water.

Fertilize Division of Tennessee Fabricating Company

1606 Grimes St.
Memphis 6, Tenn.

Rush us complete information and wholesale prices on the New Fertilize line.

Name _____
Company _____
Address _____
City _____ State _____

FLASH! YOU CAN NOW ORDER THE FIRST ALL-AMERICA MUM WINNERS!

Now—for the first time, your customers can have All-America Mums—the first winners in the test gardens of the All-America Mum Selections! This organization of Mum experts has been set up on a competitive basis to determine the NEW CHAMPION MUMS for America each year. Each entry is tested for two years and scored impartially. The winners for 1958 are:

Burning Bronze • Emperor • Ruby King • Showpiece



BURNING BRONZE

Pl. Pat. App. for. Tangerine, bronze and orange medley—a spirited splash of fall color. Very free, vigorous $\frac{1}{2}$ -foot bush loaded with $\frac{1}{2}$ -inch blossoms. Wonderful cutting sprays. A real knockout! Suggested retail—\$1.50 each; 3 for \$3.75. Wholesale—25 for \$16.25; 100 for \$50.00; 200 for \$90.00

EMPEROR

Pl. Pat. App. for. Opens from bright bronze buds with orange tints into the sunniest of yellows—fine, clear and rich. Very double, generous blooms. Vigorous, compact, shapely. Tops indoors or out! Suggested retail—\$1.50 each; 3 for \$3.75. Wholesale—25 for \$16.25; 100 for \$50.00; 200 for \$90.00



RUBY KING

Pl. Pat. App. for. Best dark red cushion of the day. Brilliant, shining red flowers cover a shapely, low-growing plant. Ideal for walks and borders. Grows 12 to 15 inches high with 15 to 18-inch spread. Sensational! Suggested retail—\$1.50 each; 3 for \$3.75. Wholesale—25 for \$16.25; 100 for \$50.00; 200 for \$90.00



SHOWPIECE

Pl. Pat. App. for. Rich, sparkling royal rose with silver-mist centers and reverse. Huge flowers are full and shapely. Wonderful sprays and single blooms for cutting. Really superb in every way! Suggested retail—\$1.50 each; 3 for \$3.75. Wholesale—25 for \$16.25; 100 for \$50.00; 200 for \$90.00



Special AAMS Group Introductory Offer!!!
25 EACH of All \$52.50 50 EACH of All \$92.50
Four Winners Four Winners

None Genuine without this Patent Tag attached. Look for it! →

Meet the Demand for All-America Mums and You'll Profit!



BRISTOL NURSERIES

Bristol 228, Connecticut

THE CONARD-PYLE COMPANY

West Grove 220, Pennsylvania

R. M. KELLOGG COMPANY

Three Rivers 231, Michigan

NEW OHIO SECRETARY

George F. Gens, George F. Gens & Sons, Norwalk, O., was recently appointed secretary-treasurer of the Ohio Nurserymen's Association, according to an announcement by Zophar Warner, Warner Nursery, Willoughby, newly elected president of the O. N. A. Mr. Gens is a past president of the association and has been a member for 18 years.

ADDS SALESYARD INTEREST

Robinson & Parnham, already the possessors of a distinctive garden supply shop in connection with the landscape and nursery business they conduct at Des Moines, Ia., have rearranged their outdoor shopping area to make it more interesting and inspirational to customers. At the same time, according to Harold J. Parnham, the new plan has provided the firm with a gain of 65 per cent in space usable for plants. This increase in display space by enlarging beds and bins and using fewer walks was the sole intention at the start.

The final result is a salesyard with landscape features on an economical scale. A seat was built about a large maple tree in the area. At the center of the space a diamond-shaped bed

J & P

EVERGREENS
SHADE TREES

SHRUBS, VINES
HEDGE PLANTS, etc.

In good assortment.

Jackson & Perkins Co.
NEWARK, NEW YORK STATE

We never talk about the other fellow's low prices; he knows what his merchandise is worth. We grow good evergreen liners. Ask for our wholesale list.
STEDMAN NURSERIES, INC.
NEWFANE, N. Y.

HANKOW CORKSCREW WILLOW

	4 to 5 ft.	Per 10
250	.....	\$13.50
190	8 to 10 ft., heavy.....	28.00
100	10 to 12 ft., heavy.....	40.00

MOSES NURSERIES
Lima, N. Y.

SHEPARD NURSERIES

Growers and Distributors of
ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.
60 acres growing. Skaneateles, N. Y.

HYBRID RHODODENDRONS

Evergreens,
Ornamental Trees
and Shrubs

SEPPERS NURSERY

N. Delsea Drive
VINELAND, N. J.

RHODODENDRONS

Own Root
In Quality, Quantity and
Variety

JAMES S. WELLS NURSERY, INC.
P. O. Box 141 RED BANK, N. J.

follows the cross axis line. In this bed is being constructed a 3-level bowl pool arrangement, with water falling continuously from one pool to another.

Most of the sales area will be covered with new lath, which will

rest on a framework being constructed of pipe, with angle irons for channels. It is anticipated that the lath will be removed in late winter so that frost can be thawed from soil in time to prepare the display beds for early spring business.

SCHROTH'S NURSERY

It pays to plant
The Best

SEEDLINGS

Excellent Root
Systems, Hardy
ORDER NOW!

Grown at High Altitude—In the Heart of the Original Pine Forests

WHOLESALE PRICES

PINE SEEDLINGS

	Per 100	Per 1000
Scotch Pine, Riga		
2-0, 2 to 4 ins.	SOLD OUT	
2-0, 4 to 8 ins.	\$5.00	\$30.00
3-0, 8 to 16 ins.	7.00	....
Scotch Pine, German		
2-0, 2 to 4 ins.	2.50	12.50
2-0, 5 to 8 ins.	5.00	30.00
Scotch Pine, French		
2-0, 2 to 4 ins.	2.50	12.50
2-0, 4 to 6 ins.	4.50	25.00
2-0, 4 to 8 ins.	5.00	30.00
The above is Auvergne strain, short needle, blue-green color.		
2-0, 3 to 5 ins.	4.00	20.00
2-0, 5 to 9 ins.	6.00	35.00

The above is Haganau strain, long needle.

NOTE: In order to satisfy the individual demands of our many customers, we are offering the above strains of Scotch Pine. They are all highly recommended by our seed suppliers for good color, straight stems, compactness and fast-growing characteristics. They are grown from the best seed obtainable, under the best growing conditions, to develop the healthiest seedlings possible to withstand drought, disease and insect damage.

Austrian Pine		
2-0, 3 to 4 ins.	3.00	15.00
2-0, 4 to 6 ins.	4.50	25.00
3-0, 8 to 14 ins.	5.00	30.00
4-0, 12 to 18 ins.	10.00	....

White Pine		
2-0, 3 to 5 ins.	4.00	20.00
3-0, 5 to 9 ins.	SOLD OUT	

AMERICAN RED PINE, PONDEROSA PINE AND MUGHO PINE NOT AVAILABLE THIS YEAR.

5% discount on 25,000 or more of combined species.
(Exclusive of seedlings \$15.00 per 1000 and under.)

We guarantee all stock represented herein as to size and quality, or your money cheerfully refunded.

The name SCHROTH stands for the best. Your order will convince you. Make a Christmas tree planting this season. Scotch is the best bet. Do not delay. Send for complete listing and terms.

All stock offered subject to prior sale.

SPRUCE SEEDLINGS

	Per 100	Per 1000
Norway Spruce		
2-0, 3 to 5 ins.	\$ 3.00	\$ 20.00
2-0, 5 to 8 ins.	4.00	30.00
3-0, 6 to 12 ins.	SOLD OUT	
4-0, 12 to 16 ins.	10.00	60.00
Colorado Blue Spruce, from select seed. Color very good.		
3-0, 3 to 5 ins.	3.50	20.00
3-0, 5 to 9 ins.	5.00	35.00
4-0, 6 to 12 ins.	10.00	60.00
4-0, 12 to 14 ins.	20.00	120.00
White Spruce		
2-0, 3 to 5 ins.	3.00	20.00
3-0, 5 to 9 ins.	5.00	30.00
4-0, 6 to 10 ins.	6.00	35.00
4-0, 9 to 14 ins.	13.00	70.00
Engelmann Spruce		
2-0, 2 to 4 ins.	2.50	15.00
2-0, 4 to 6 ins.	4.00	25.00
3-0, 6 to 12 ins.	6.00	35.00
Black Spruce (Mariana)		
3-0, 5 to 8 ins.	SOLD OUT	
3-0, 8 to 14 ins.	SOLD OUT	

FIR SEEDLINGS

	Per 100	Per 1000
Douglas Fir (Glauc)		
2-0, 2 to 4 ins.	\$3.50	\$20.00
2-0, 4 to 8 ins.	6.00	35.00
Concolor Fir		
2-0, 2 to 4 ins.	3.50	20.00
2-0, 4 to 8 ins.	5.00	50.00

LARCH SEEDLINGS

European Larch		
3-0, 8 to 14 ins.	SOLD OUT	

We Do Not Have Any Transplants of Any Kind,
or Chestnut Seedlings for Spring Planting.

SCHROTH'S NURSERY

INDIANA, PA.

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

PHASES OF A BUSINESS

Businesses have a pattern of growth, so economists claim. They have a youthful period of expansion, a period of maturity and one of old age. In fact, the life of a business can be compared to that of a tree. Perhaps the greatest similarity lies in the possibility that by special attention to a business or to a tree man can make its growth long and secure.

Besides the pattern of growth, there are three phases of a business, each requiring special direction to serve its special purpose. One is the period of growth or expansion, when extra money, time and energy are spent in developing the business. The second is usually thought of as a period of consolidation, when growth is more matured and debt is usually paid off. The third, which might be compared to full maturity but not necessarily to old age, is the period when the owners or entrepreneurs seek the fullest returns from their investment and efforts.

It is my own experience and, I think, the experience of many others that the small business cannot be in more than one of these phases at any one time. Large firms with access to capital markets may behave otherwise. These phases of a business do not necessarily follow in the order given, nor is it necessary for an enterprise to proceed from one to the next and then die. Often a business will go through these phases in irregular order, shifting from one to the other to suit the owner's convenience and desires and the economic situation, and still remain a healthy business.

Phases Detailed

There are advantages and pitfalls in all three of these phases. The first period of growth or expansion is highly important, for it determines the future stature of the business. A timid period of expansion may leave one with a half-organized business incapable of meeting its market capabilities. Conversely, overexpansion is disastrous and is the cause of a majority of business failures. Expansion is good, so long as there is enough reserve to carry the enterprise through the setbacks that invariably come.

One would think the repayment of

debt during the second phase would always be advisable, and it usually is. However, timing is important, and there are at least two extenuating circumstances or exceptions. It is entirely possible for a businessman to make up his mind to repay his loans just at a time when he really should be expanding to meet a growing market. If the new market is developed to advantage the debt might be repaid later at one-half or even one-fourth the sacrifice.

The other exception applies when the business phase in which debts are normally repaid coincides with a period of hard times. It is extremely difficult for a business to borrow when times are hard and repay when times are booming, but whenever an enterprise is healthy enough to permit the owner to do this, he is at a tremendous advantage.

There is nothing wrong with an owner's seeking the fullest harvest

from a business that has reached its third phase. This is particularly true if it is a 1-man business. The pitfall in this phase, however, lies in taking too much out of the business, with the result that it fades away. It would be better to sell it than to try to retire on it.

There is no reason why there could not be several periods of phase three in a business, just so that it is not overdone. When children are being sent to college or when a long trip and other special luxuries are desired, extra returns could justly be expected.

An owner can grow, cultivate and harvest a business just as he can a tree.

PENN STATE CONFERENCE

[Continued from page 11]

scape principles as they relate to home planting.

Since the students are in horticulture, it is felt they should have some knowledge of other areas in the field, and they take a course in fruit growing, vegetable gardening and plant breeding. They may also elect courses in greenhouse forcing. In addition to the horticultural subjects, they receive training in soils

BAIER LUSTGARTEN AZALEALAND NURSERIES

Northern-grown, hardy azaleas, well-budded, sheared, heavy stock, field-grown, excellent foliage. Over 200,000 for spring delivery. All sizes from 8 ins. to 3 ft. All B&B.

AMOENA

8 ins.	.....\$0.75
10 ins.	.....1.00
12 ins.	.....1.25
15 ins.	.....2.00

CORAL BELLS

6 ins.	......50
8 ins.	......75
10 ins.	.....1.00

HINODEGIRI

Our Hinos are very dark red.

6 ins.	......50
8 ins.	......75
10 ins.	.....1.00
12 ins.	.....1.25
15 ins.	.....2.00
18 ins.	.....2.50
20 ins.	.....3.50
24 ins.	.....5.00
30 ins.	.....6.00
36 ins.	.....7.50

ORANGE BEAUTY

6 ins.	.....\$0.50
8 ins.	......75
10 ins.	.....1.00
12 ins.	.....1.25

KAEMPFERI

Hardest of all azaleas; well-budded, heavy.

OTHELLO, SALMON

BEAUTY, FEDORA and CARMEN are all the same price.

8 ins.	......75
10 ins.	.....1.00
12 ins.	.....1.25
15 ins.	.....2.00
18 ins.	.....2.50
20 ins.	.....3.50
24 ins.	.....5.00
30 ins.	.....6.00
36 ins.	.....7.50

LEDIFOLIA ALBA

6 ins.	.....\$0.50
8 ins.	......75
10 ins.	.....1.00
12 ins.	.....1.25
15 ins.	.....2.00
18 ins.	.....2.50
20 ins.	.....3.50
24 ins.	.....5.00

MAXWELL

8 ins.	......75
10 ins.	.....1.00

HINO-CRIMSON

6 ins.	......50
8 ins.	......75
10 ins.	.....1.00
12 ins.	.....1.25
15 ins.	.....2.00

SNOW

6 ins.	......50
8 ins.	......75
10 ins.	.....1.00
12 ins.	.....1.25

We also have limited quantities of the following varieties: Louise Gable, Favorita, Beethoven, Johann Strauss, Rose Bud, Rose Greeley, Addy Wery and Polaris. Rooted cuttings of all varieties, \$50.00 per 100 except—Rose Bud, Rose Greeley, Addy Wery, Louise Gable, \$75.00 per 1000.

Buy northern-grown hardy azaleas. Our cuttings are made from plants that have been outdoors, unprotected for the past 15 years. Try them once and see the difference.

Write for Our Catalog for Many Other Items Which We Grow

BAIER LUSTGARTEN

Jericho Turnpike, MIDDLE ISLAND, L. I., N. Y.

Phone: Yaphank 4-3444

HEMLOCK

Rhododendron • Kalmia • Azalea

CURTIS NURSERIES

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Growers of Quality

Taxus, Ilex and other Ornamentals.

Ask for list.

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LINCOLN, DEL.

Phone: Milford, Delaware 4445

NEW Products . . . Promotion . . . PROFITS!

End-o-Pest and End-o-Weed Lead the Field for '58



NEW, Improved End-o Rak!

Displays and SELLS the full line . . . built for high impulse sales and turnover. Gives every item good visibility, makes selection easier for your customers!



New Consumer Folder with Dispenser

Attach to End-o Rak or display separately. Colorful folder shows folks what product will do the best job and how to use it. A terrific "do-it-yourself" manual!

3 New End-o Store Posters

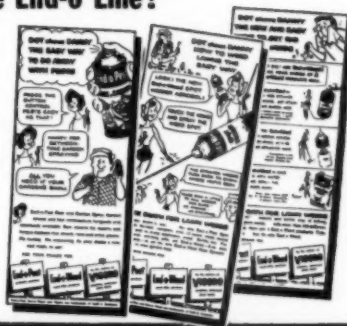
Featuring popular cartoon characters Dot and Danny. Many variations in copy to fit your needs. Ask your Swift representative for them.



NEW! Biggest Advertising Ever for the End-o Line!

The complete line will be pushed with a full-page color ad in the April issue of Better Homes & Gardens. Plus—half-page ads in Better Homes & Gardens, American Home and Sunset will back the line during the peak season.

PLUS—Big-space Local Newspaper Ads in Major Markets



NOW! The most Complete and PROFITABLE Line in the Business!

End-o-Weed, 2,4-D LAWN WEED KILLER



in cans. A top-seller because it does the job best and it's easy to use. Stock it and profit!

End-o-Weed SPOT WEEDER (Aerosol)



New! Ready-mixed 12-oz. bomb with no-stoop applicator. Display it and watch it sell in volume!

End-o-Weed LAWN WEED SPRAY (Hose Sprayer)



New! End-o-Weed now in disposable applicator you attach to garden hose. Save 'em work and you make money!

End-o-Pest Garden Dust



Safe and sure protection (and profits, too!) Handy dust gun applicator, refills and 2-lb. canisters.

End-o-Pest Rose Dust



Most effective formula ever developed. Light, uniform dusting protection. 10-oz. dust guns, refills and 20-oz. canisters.

PLUS—these other popular, fast moving Swift products!

Instant Vigoro Complete
Water Soluble Plant Food
End-o-Pest Garden Spray
with Malathion

End-o-Pest Tree Spray
End-o-Pest Ant and
Lawn Insect Control
(Dust or Liquid)

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STOCK and DISPLAY these Vigoro Plant Foods, too!

Vigoro Complete Rose Food • Special Vigoro for Camellias and Azaleas
Vigoro plus Chlordane • Vigoro Complete Plant Food

Golden VIGORO Complete Lawn Food

See your local Vigoro Representative or write

SWIFT & COMPANY

Agricultural Chemical Division • Chicago, Illinois

SEEDLINGS FOR SPRING

	Per 100	Per 1000
Scotch Pine		
2-yr., S., 2 to 4 ins.	\$ 2.50	\$12.50
2-yr., S., 3 to 6 ins.	4.00	20.00
2-yr., S., 4 to 8 ins.	5.00	25.00
Riga Scotch Pine		
2-yr., S., 2 to 4 ins.	3.00	15.00
2-yr., S., 4 to 8 ins.	5.00	25.00
French Scotch Pine		
2-yr., S., 1 to 3 ins.	3.00	15.00
Scotch Pine		
(2-1), T., 1 to 3 ins.	4.00	20.00
(2-1), T., 3 to 5 ins.	7.00	35.00
(2-2), T., 5 to 10 ins.	10.00	50.00
(2-2), T., 10 to 15 ins.	15.00	75.00
(2-2), T., 15 to 18 ins.	25.00	....
Austrian Pine		
2-yr., S., 3 to 6 ins.	5.00	25.00
Red Pine		
2-yr., S., 2 to 4 ins.	4.00	20.00
Mugho Pine		
3-yr., S., 3 to 7 ins.	7.00	35.00
Douglas Fir		
3-yr., S., 2 to 4 ins.	4.00	20.00
Blue Spruce		
3-yr., S., 2 to 4 ins.	4.00	20.00
3-yr., S., 4 to 8 ins.	8.00	40.00
(2-2), T., 3 to 6 ins.	10.00	50.00
(2-2), T., 8 to 12 ins.	30.00	....
Norway Spruce		
2-yr., S., 2 to 4 ins.	3.00	15.00
2-yr., S., 4 to 8 ins.	5.00	25.00
(2-2), T., 5 to 8 ins.	10.00	50.00
(2-2), T., 8 to 12 ins.	15.00	75.00
(2-2), T., 10 to 16 ins.	25.00	....
White Spruce		
2-yr., S., 2 to 4 ins.	3.00	15.00
2-yr., S., 3 to 6 ins.	5.00	25.00
(2-2), T., 4 to 8 ins.	10.00	50.00
(2-2), T., 8 to 12 ins.	15.00	....

IMPORTANT—Read carefully. These prices subject to 5% discount on quantities of 25,000 or more.

All orders must be accompanied by cash or a 25% deposit. The balance will be shipped C.O.D.

ROOTSPRED TREE PLANTER: Reforestation, Christmas Tree and Ornamental Planting.

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Own-Root Transplants

Over 100 named hybrid varieties with peat ball available about May 15. Order now.

Also 1-yr. transplants available early spring.

Field plants to 4 ft.

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and fertilization practices, turf management, general botany, plant physiology, diseases of ornamental plants, general entomology and insects affecting ornamental plants. For well-rounded training, they take courses in English, history, economics and political science.

Although it is admitted the graduates are not finished nurserymen upon the completion of their course, it is felt they have received excellent training and have the foundation for developing into valuable men for the industry.

A new program was started this past fall in winter course nursery training. This program has four 8-week terms, the first beginning in November and finishing in early January and the second beginning in February and ending the last of March. It is hoped students in these courses can find employment with nurseries in April to work through the spring, summer and fall seasons before returning in November for the third and fourth terms.

Employment Aim

If both the student and employer are satisfied during the work period, it is felt that permanent employment might result at the conclusion of the four terms, which would be advantageous for both parties. These students receive training in plant materials, plant propagation, care and maintenance of trees and shrubs, soils and fertilizers, turf management, landscape principles for home planting, and nursery management. At the present there are 15 students enrolled in this program and these will be seeking employment April 1 for spring, summer and fall months.

In the research program, a number of projects are being conducted. The oldest project is the variety tests of ornamental plants. This work covers all ornamental plants, both herbaceous and woody. At the present, considerable work is being done in testing herbaceous plants, particularly annual flowers. Extensive rose trials are also conducted. It is hoped that more woody plants can be included in these trials. It is felt that the results of these tests can be of great importance to nurserymen.

Pruning of narrow-leaved evergreens is being conducted on a number of different genera and species to determine the most advantageous time and method. Two types of pruning, shearing and heading back, are being tested, with both light and heavy pruning for each type. The time and frequency are being studied, with pruning done in March, May, July or October, once a year,

CHRISTMAS TREE PLANTATION STOCK

PINE—SPRUCE—FIR

Seedlings and Transplants

	Per 100	Per 1000
Norway Spruce (Picea excelsa)		
(2-0), 2-yr., S.,		
2 to 3 ins.	\$ 7.00	\$18.00
3 to 5 ins.	8.00	22.00
(1-2), 3-yr., T.,		
5 to 10 ins.	10.00	50.00
(2-2), 4-yr., T.,		
6 to 12 ins.	12.00	60.00
8 to 14 ins.	16.00	90.00
Scotch Pine (Pinus sylvestria)		
(2-0), 2-yr., S.,		
2 to 4 ins.	4.00	18.50
3 to 6 ins.	5.00	22.00
4 to 8 ins.	6.00	25.00
(2-2), 4-yr., T.,		
6 to 10 ins.	10.00	50.00
8 to 14 ins.	15.00	60.00
Blue Spruce (Picea pungens)		
(Colorado Blue Spruce)		
(2-0), 2-yr., S.,		
2 to 3 ins.	4.00	20.00
3 to 4 ins.	6.00	25.00
(3-0), 3-yr., S.,		
3 to 6 ins.	8.00	35.00
6 to 10 ins.	10.00	55.00
Austrian Pine (Pinus nigra)		
(2-0), 2-yr., S.,		
2 to 4 ins.	4.00	20.00
3 to 6 ins.	6.00	25.00
(2-2), 4-yr., T.,		
5 to 10 ins.	12.00	70.00
White Spruce (Picea alba)		
Excellent blue-gray color.		
(2-0), 2-yr., S.,		
3 to 6 ins.	5.00	25.00
(3-0),		
2-yr., S., 4 to 8 ins.	6.00	30.00
3-yr., S., 6 to 12 ins.	8.00	40.00
Concolor Fir (Abies concolor)		
(2-0),		
2 to 3 ins.	8.00	35.00
3 to 6 ins.	10.00	50.00
(3-0), 3-yr., S.,		
4 to 8 ins.	15.00	70.00
Douglas Fir		
(2-0),		
2-yr., S., 2 to 3 ins.	6.00	25.00
3-yr., S., 3 to 6 ins.	8.00	35.00

Discount: Less 5% on quantities of 5000 or more of a kind. Order 100 at 100 rate; 1000 at 1000 rate.

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Crataegus cordata (Washington Thorn). Grown with single, straight trunks and shapely heads, available in 4 to 5 and 5 to 6 ft.

Crataegus mollis (Downy Hawthorn). Single, straight trunks and excellent heads in 5 to 6, 6 to 7 and 7 to 8 ft.

Crataegus oxycantha pauli (Paul's Scarlet Thorn). Straight trunks, full tops, 4 to 5, 5 to 6 and 6 to 7 ft.

Many other smaller-growing varieties are available.

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Transplanted stock grown in open field beds.

	Each 100 rate	Each 1000 rate
Abies concolor (Concolor Fir)		
3 to 6 ins., 2-yr., S.....	\$0.10	..
4 to 8 ins., 3-yr., S.....	.15	..
Azalea Ghent pontica , pastel shades		
4 to 6 ins., 3-yr., T.....	.35	\$0.32
6 to 10 ins., 3-yr., T.....	.45	..
Azalea kaempferi (Torch Azalea)		
3 to 6 ins., 3-yr., T.....	.35	..
6 to 10 ins., 3-yr., T.....	.45	..
Azalea mollis (Chinese Azalea)		
6 to 8 ins., 2-yr., T.....	.22	.18
8 to 12 ins., 3-yr., T.....	.45	.40
Azalea mucronulatum , lavender shades		
4 to 8 ins., 2-yr., T.....	.35	.32
8 to 10 ins., 3-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.55	.50
Buxus sempervirens welleri		
8 to 10 ins., 3-yr., T.....	.45	..
10 to 12 ins., 3-yr., T.....	.55	..
Chamaecyparis filifera aurea		
6 to 8 ins., 2-yr., T.....	.35	..
8 to 10 ins., 3-yr., T.....	.45	..
10 to 12 ins., 3-yr., T.....	.55	..
Chamaecyparis lawsoniana allumi (Columnar Blue Cypress)		
10 to 12 ins., 3-yr., T.....	.45	..
12 to 15 ins., 3-yr., T.....	.55	..
Chamaecyparis plumosa aurea		
8 to 10 ins., 3-yr., T.....	.40	.35
10 to 15 ins., 3-yr., T.....	.50	.45
Cotoneaster horizontalis		
4 to 8 ins., 3-yr., T.....	.25	..
Eunymus fortunei erectus		
10 to 12 ins., 2-yr., T.....	.28	.25
12 to 18 ins., 3-yr., T.....	.35	.30
Eunymus radicans coloratus		
12 to 18 ins., 3-yr., T.....	.35	.30
Eunymus radicans vegetus		
8 to 10 ins., 2-yr., T.....	.35	..
10 to 15 ins., 3-yr., T.....	.45	..
Ilex crenata (Pyramidal)		
8 to 10 ins., 3-yr., T.....	.35	..
10 to 15 ins., 3-yr., T.....	.45	..
Ilex crenata convexa (bullata)		
10 to 12 ins., 2-yr., T.....	.48	.45
12 to 15 ins., 3-yr., T.....	.65	.55
12 to 15 ins., 3-yr., field row spaced	1.00	.90
Ilex crenata hetzi		
8 to 10 ins., 2-yr., T.....	.40	.38
10 to 15 ins., 3-yr., T.....	.55	..
Ilex rotundifolia (Round-leaved)		
8 to 10 ins., 2-yr., T.....	.38	.35
10 to 12 ins., 3-yr., T.....	.48	.45
12 to 15 ins., 3-yr., T.....	.70	.55
12 to 15 ins., 6-yr., T..... field row spaced	1.00	.90
Juniper, Andorra (Purple Andorra Juniper)		
8 to 10 ins., 2-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.50	.45
Juniperus canadensis aurea (Golden Canadian Juniper)		
6 to 8 ins., 2-yr., T.....	.35	..
8 to 10 ins., 3-yr., T.....	.45	..

FINISHED NURSERY STOCK

All plants listed below priced in the ground. Purchaser to call for at the nursery. About 10,000 in this block. Will give a block clearance price on large amounts.

	Each 100 rate	Each 1000 rate
Ilex crenata convexa (bullata)		
12 to 18 ins.....	\$1.50	\$1.10
15 to 18 ins.....	2.00	1.60
18 to 24 ins.....	2.50	..

	Each 100 rate	Each 1000 rate
Ilex rotundifolia		
12 to 18 ins.....	1.50	1.10
18 to 24 ins.....	2.00	1.60

	Each 100 rate	Each 1000 rate
Juniperus glauca hetzi		
18 to 24 ins.....	2.00	1.60
24 to 36 ins.....	2.40	1.75

	Each 100 rate	Each 1000 rate
Juniperus pfitzeriana compacta , Nelson's compact variety		
12 to 15 ins.....	1.50	1.10
15 to 18 ins.....	2.00	1.50

	Each 100 rate	Each 1000 rate
Taxus cuspidata (about 125 of these plants)		
4 to 5-ft. spread.....	8.00	..
(10 to 200 at the 100 rate; 200 up at the 1000 rate.)		

	Each 100 rate	Each 1000 rate
Juniperus glauca hetzi (Hetz Juniper)		
8 to 10 ins., 2-yr., T.....	\$0.35	\$0.30
10 to 12 ins., 2-yr., T.....	.40	.35
12 to 15 ins., 3-yr., T.....	.55	.48
Juniperus hibernica fastigiata (Compact Irish Juniper)		
10 to 12 ins., 2-yr., T.....	.38	.33
12 to 15 ins., 3-yr., T.....	.45	.40
Juniperus pfitzeriana, regular		
8 to 10 ins., 2-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.55	..
Juniperus pfitzeriana aurea (Golden Pfitzer Juniper)		
8 to 10 ins., 2-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.65	..
Juniperus pfitzeriana compacta , Nelson's compact variety		
6 to 8 ins., 1-yr., T.....	.35	.30
8 to 10 ins., 2-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.65	..
Koeleruteria paniculata		
2-yr., S., field bed.....	.12	.08
6 to 12 ins., 3-yr., T.....	.18	.15
Leucothoe catesbaei		
8 to 10 ins., 3-yr., T.....	.35	.30
10 to 12 ins., 3-yr., T.....	.45	..
12 to 15 ins., 3-yr., T.....	.55	..
Liquidambar styraciflua		
2-yr., S., bed run.....	.10	.08
6 to 12 ins., 3-yr., T.....	.15	.12
Mahonia aquifolium		
2 to 5 ins., 3-yr., S.....	.20	.18
4 to 8 ins., 4-yr., S.....	.25	.20
Picea alba (White Spruce)		
3 to 6 ins., 2-yr., S.....	.05	.02½
6 to 12 ins., 3-yr., S.....	.08	.04

	Each 100 rate	Each 1000 rate
Picea excelsa (Norway Spruce)		
6 to 12 ins., 4-yr., T.....	\$0.12	\$0.06
8 to 14 ins., 4-yr., T.....	.16	.09
Picea pungens (Colorado Blue Spruce)		
4 to 6 ins., 4-yr., T.....	.20	.18
6 to 8 ins., 4-yr., T.....	.35	.32
Pieris floribunda (Mountain Andromeda)		
6 to 8 ins., 2-yr., T.....	.35	..
Pieris japonica		
8 to 10 ins., 2-yr., T.....	.35	..
10 to 12 ins., 3-yr., T.....	.65	..
Pinus mugo (Dwarf Mugho Pine)		
3 to 6 ins., 3-yr., T.....	.25	.20
Pinus nigra (Austrian Pine)		
5 to 10 ins., 4-yr., T.....	.12	.07
Pinus sylvestris (Scotch Pine)		
5 to 8 ins., 4-yr., T.....	.10	.05
8 to 14 ins., 4-yr., T.....	.15	.06
Pseudotsuga douglasii (Douglas Fir)		
2 to 3 ins., 2-yr., S.....	.06	.02½
3 to 5 ins., 3-yr., S.....	.08	.03½
Pyracantha coccinea lalandi		
6 to 10 ins., 2-yr., T.....	.32	.30
10 to 15 ins., 3-yr., T.....	.40	.38
Rhododendron carolinianum		
2 to 4 ins., 3-yr., T.....	.35	..
4 to 8 ins., 3-yr., T.....	.45	..
Rhododendron catawbiense		
2 to 4 ins., 3-yr., T.....	.35	..
4 to 8 ins., 3-yr., T.....	.45	..
Rhododendron Hybrid , various colors		
3 to 5 ins., 3-yr., T.....	.45	..
5 to 8 ins., 4-yr., T.....	.55	..
8 to 10 ins., 4-yr., T.....	.85	..
10 to 15 ins., 5-yr., T.....	1.00	..
Taxus capitata (Upright Yew)		
4 to 8 ins., 4-yr., T.....	.40	.35
8 to 10 ins., 4-yr., T.....	.50	.48
Taxus cuspidata (Spreading Yew)		
8 to 8 ins., 2-yr., T.....	.38	.35
8 to 10 ins., 2-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.55	.45
Taxus media hicksii (Hicks' Yew)		
6 to 8 ins., 2-yr., T.....	.35	..
8 to 10 ins., 2-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.55	..
Thuja occidentalis douglasii aurea (Geo. Peabody Golden Arborvitae)		
8 to 10 ins., 3-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.55	..
Thuja occidentalis elegantissima lutea		
10 to 12 ins., 3-yr., T.....	.45	.40
12 to 15 ins., 4-yr., T.....	.55	.50
15 to 18 ins., 4-yr., T.....	.65	..
Thuja occidentalis globosa		
8 to 10 ins., 2-yr., T.....	.40	.35
10 to 15 ins., 4-yr., T.....	.65	..
Thuja occidentalis pyramidalis		
10 to 12 ins., 2-yr., T.....	.45	..
12 to 15 ins., 3-yr., T.....	.55	..
15 to 18 ins., 3-yr., T.....	.65	..
Tsuga canadensis (Hemlock)		
8 to 10 ins., 4-yr., T.....	.40	..
10 to 15 ins., 5-yr., T.....	.55	.50
Viburnum opulus nanum		
2-yr., T.....	.30	..

Lining-out Stock. 25 at the 100 Rate. 300 at the 1000 Rate.

TERMS: Free packing for cash with order, otherwise ½ deposit with order and balance C.O.D. Packing at cost. All shipments by railway express.

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Phone: Zelienople 789 (or 644 evenings)

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R. D. 1, HARMONY, PA.

twice a year and every other year. The work has not progressed far enough to obtain significant results, but it is hoped the findings will be ready in a year or two.

Plant propagation studies are being conducted, with special emphasis on the use of mist in propagation. The results so far indicate that plants respond differently to application of intermittent mist. Some plants, such as most viburnums, root readily whether mist is given or not. Satisfactory rooting of many plants has

not been achieved with or without mist. *Kalmia latifolia* and many varieties of crab apple are in this group. Another phase of propagation being studied is the effect of light on rooting. No results are yet available on this latter study.

Marketing of ornamental nursery plants is being studied, and a report of this work was given by Mr. Kivlin. The complete results of the consumer survey are in preparation for publication. A survey of nurseries was also made last summer to determine some

of the problems encountered by the industry and how they are being or can be solved. The results of this survey are now being compiled.

Breeding of ornamental plants is another research project being carried on, with emphasis on the family caprifoliaceae. It is hoped that new and better dwarf forms of viburnum can be developed. This work is naturally of long duration, but several crosses have been made.

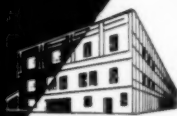
Work on weed control in ornamental nurseries is being started this

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2-yr.-old, field-grown plants.

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year. There are other areas that need investigation, and the university is anxious to work on as many as time and funds will permit. Suggestions of problems from nurserymen will be welcome.

The personnel of the extension service was enlarged by the addition of two new specialists in ornamental horticulture during the past year. It is expected that, through this staff enlargement, more help will be available for nurserymen.

Home Landscaping

"Residential Landscape Design" was the topic of a talk by Wayne H. Wilson, professor of landscape architecture at the university. Professor Wilson gave this talk when some of the scheduled speakers were unable to reach University Park. Design is the result of experience. One way to do planting is to use the pointing method, that is, going to the property and deciding immediately on the location of the plants. This method is all right, but one must be careful not to get in a rut and follow the same scheme time and time again, regardless of the situation. It is better to analyze the problem by considering the over-all pattern for the people in the home. The basic needs of the family should be put down. Such factors as the number of people involved, presence of children, and type of activities should be considered.

Some clients will not know what they want, while others may have definite ideas but will not know the best solution. In all cases, diplomacy is necessary. An analysis of the site should be made, with notation of the topography, exposure, boundary and drainage, along with the family needs and desires.

It is essential to consider the necessary conveniences—which ones can be accepted, which ones will have to be rejected or put up with. The various parts must be worked together to make the whole. The plan should be put on paper, so that relationship between the parts can be seen and the best solution reached.

Too often there is no budget for landscape work. There is a need to include landscaping in the mortgage, the same as the stove and refrigerator are often included. Nurserymen, along with landscape architects, should work to promote this idea. It will take concerted effort and it should be conducted on a national scale.

Nitrogen Needs

The next speaker was Dr. Fred V. Grau, Nitroform Agricultural Chemical Co., College Park, Md. His sub-

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ject was "Using the New Forms of Nitrogen." He said that new forms of nitrogen have meant much to turf workers because one application lasts a long time. New fertilizers have been tailor made according to the specifications of nurserymen and can be changed to meet new needs. In all cases, phosphorus and potassium must be present in the proper quantities before nitrogen can do much good.

Nitrogen is the element that puts color and growth in plants and is the one most easily lost in the air and through leaching. Over every acre there are more than 1,000,000,000 pounds of nitrogen, but it is unavailable except for about 50 pounds per acre. This nitrogen is worked on by bacteria and made available. Nitrogen had been stored by nature in the soil, but this has been largely used up. Now new forms of nitrogen can do the same thing—add nitrogen for storage and later use.

Soluble nitrogen may burn plants. During the war natural organic forms, such as cottonseed meal, became important because they were available. However, it was found they did not last so long as expected. A substitute for natural organic nitrogen was obtained by combining urea with formaldehyde to make ureaform. This new product is high in nitrogen content—38 per cent—an important fact with high freight and storage charges. One ton of ureaform is equivalent to seven tons of natural organic nitrogen, and one application is equivalent to five applications of natural organic nitrogen. It saves on labor to be able to apply nitrogen and have it stored in the soil and released over a long period. Soil conditions are important; for example, bacteria work better at higher soil acidity levels.

Nitrogen Release Rate

The rate of release is steady, and the amount depends on the rate of application. A comparison of soluble nitrogen, natural organic nitrogen and ureaform shows that an application of soluble nitrogen will be available for about four weeks, natural organic about five weeks, and ureaform 20 to 24 weeks. Soluble nitrogen will burn, while ureaform will not. Natural organic nitrogen is intermediate between the two. The initial rate of application of ureaform must be higher, because the product is more slowly available, but it lasts longer.

Ureaform is available as a complete fertilizer, as 10-5-5. Seventy-five per cent of nitrogen is from ureaform, and 25 per cent from soluble forms so that the plants can get

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This beautiful evergreen subshrub is acclaimed by leading horticulturists as the finest available in its category. Unexcelled as an edging or specimen in front of foundation plantings. Highly scented, rose-pink flowers cover the foliage in spring, bloom intermittently in summer and quite fully again in autumn. The plant itself never grows taller than 8 to 10 ins. Our strain has proved hardy and easy to grow. Complete planting directions furnished with each shipment. The material supplied is ideal for potting, canning or lining out in the field. Every year is a sellout, so order now to avoid disappointment.

2-in. pots	Per 10, \$3.00; Per 100, \$25.00
1-yr., 6 to 9 ins.	Per 10, \$4.00; Per 100, \$35.00
1-yr., 9 to 12 ins.	Per 10, \$5.00; Per 100, \$45.00

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Our list contains the newest and best varieties available in the country. Plants furnished are fully developed, field-grown clumps, ideal for use as stock plants for your propagations. Write for our complete list of Mums and fine perennials.

P. O. Box 189**THE JOSEPH F. MARTIN CO., INC.****Painesville, O.**

something right away, since it takes a little while for the ureaform to become available. It is possible to get ureaform in mixtures of 10-6-4, 8-6-2 and 14-7-7.

There is a certain amount of carry-over in ureaform. One can expect better results the second year than the first because of this carry-over. It takes a little time for bacteria to organize for the breakdown.

The cost is lower per pound of food, since only one or two applications are needed, as compared to about five for natural organic nitrogen or 10 for soluble types, and the over-all cost may be less.

Cooperative Efforts

"Solving Mutual Problems of the Landscape Architect and the Nurseryman Through Teamwork" was discussed by Joe A. Langran, landscape architect of the firm Wheelright, Stevenson & Langran, Philadelphia. He urged nurserymen to read specifications before placing bids on a job. If awarded the contract, the nurseryman should notify the landscape architect when the work is to start. Plants should be watered well before being dug and after delivery.

A problem of concern to landscape architects is the difficulty of getting delivery of plants as specified. Often the size is different. Mr. Langran feels some way to assure delivery as specified should be worked out. It is admitted that often there is a lag between the placing of bids and starting the work, and then the plants considered for the job are no longer available. He suggested a possible solution might be for the owner to pay 10 per cent of the contract immediately after the bid has been accepted and this amount could be used to take options on plants for the job.

Another problem is the practice of including the landscape contract in the general contract. Under such conditions, the general contractor often shops around at the expense of quality of work and plants. This practice makes it difficult for both

APRIL SPECIALS

Latham Raspberries	Per 100	Per 1000	Cornus elegantissima	Per 100	Per 1000
1/4-in. cal. and up...	\$ 7.50	\$ 70.00	2 to 3 ft.	\$75.00	.....
No. 1, 3/16-in. cal.			3 to 4 ft.	95.00	.....
and up	6.00	58.00			
Canada Red Rhubarb			Forsythia Lynwood Gold		
No. 1 div.	30.00	250.00	2 to 3 ft.	50.00	\$480.00
Medium	20.00	180.00	3 to 4 ft.	60.00	580.00
Hardy Fruit Understock			Philadelphus virginialis		
American Plum			3 to 4 ft.	55.00	500.00
No. 1, 3/16-in. cal.			4 to 5 ft.	65.00	600.00
and up	4.00	33.50			
No. 2, 2/16 to			Sambucus racemosa		
3/16-in. cal.	3.00	24.00	3 to 4 ft.	60.00	550.00
No. 3, about 2/16-in.			4 to 5 ft.	65.00	600.00
cal.	2.40	19.50			
			Viburnum lantana		
Ornamental Shrubs			2 to 3 ft.	55.00	500.00
			3 to 4 ft.	65.00	600.00
Alpine Currant			4 to 5 ft.	80.00	.....
18 to 24 ins.	70.00	650.00			
			Cotoneaster acutifolia, S.		
			6 to 9 ins.	\$50.00	\$450.00
			4 to 6 ins.	35.00	285.00

Per 1000 Per 10,000

SUMMIT NURSERIES, INC.

Phone: Hemlock 9-1502 Stillwater, Minn.

FINISHED LANDSCAPE MATERIAL

110 Acer rubrum, B&B or B.R., 2 to 2 1/2 ins.	55 Washington Hawthorn, 10 to 12 ft.
200 Juniper, pfitzeriana, 24 to 30 ins.	500 Sycamore, 7 to 8 ft., heavy branched
100 Juniper, canaertii, 3 1/2 ft.	500 Acer dasycarpum, 7 to 8 ft., heavy branched
75 Washington Hawthorn, 8 to 10 ft.	

CASSINELLI'S GLENDALE NURSERIES, INC.

(Cincinnati)
Glendale, Hamilton Co., Ohio

HYPERICUM HIDCOTE

	Per 100	Per 1000
Rooted cuttings	\$ 8.00	\$ 70.00
Potted liners	15.00	135.00
2-yr. field, XX	30.00	275.00

GILSON GARDENS
Perry, Ohio

CHIPMAN'S CANADA RED RHUBARB

We can make immediate shipment of first-class, freshly cut divisions. Express or motor freight. See classified ad or inquire for large quantity prices.

C. D. WRIGHT
Hamburg, Ia.

the landscape architect and the nurseryman. It is felt that on any project where the funds are sizable, the landscape part should be separate. General contractors usually do not know or care about the selection or care of plants. People not accustomed to handling plants do not realize plants are living things. General contractors do not know how to handle plants.

Labor unions are often a problem on the larger jobs. Few landscape contractors are unionized, and often regular construction is stopped unless the landscape labor is unionized. It would be all right if the union help were trained in landscape work, but often it is not.

The speaker urged partial payment for plant materials upon delivery to the job. This should make the

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SHERMAN'S LINING-OUT EVERGREENS

We specialize in growing evergreens for lining out, and with our new modern irrigation system and large storage facilities we can assure our customers trees of good quality, properly dug and packed for shipment. We do not store evergreen liners, but dig and pack each customer's order individually.

ARBORVITAE (Chinese)		Per 100	Per 1000	PINE, Ponderosa		Per 100	Per 1000
8 to 10 ins., S.		\$ 7.50	\$ 70.00	4 to 6 ins., S.		\$4.00	\$35.00
10 to 12 ins., S.		8.50	80.00	8 to 10 ins., S.		7.00	65.00
12 to 15 ins., S.		11.00	100.00	10 to 12 ins., S.		9.00	80.00
FIR, concolor				PINE, Scotch			
2 to 4 ins., S.		5.50	50.00	4 to 6 ins., S.		4.00	35.00
4 to 6 ins., S.		8.00	75.00	8 to 10 ins., S.		6.00	55.00
FIR, Douglas				10 to 12 ins., S.		8.00	75.00
4 to 6 ins., S.		6.50	60.00	SPRUCE, Black Hills			
6 to 8 ins., S.		8.50	80.00	2 to 4 ins., S.		3.50	30.00
6 to 12 ins., T.		16.50	150.00	4 to 6 ins., S.		4.50	40.00
PINE, Austrian				SPRUCE, Colorado Blue			
4 to 6 ins., S.		5.50	50.00	4 to 6 ins., S.		4.50	40.00
6 to 8 ins., S.		6.50	60.00	6 to 8 ins., S.		5.50	50.00
PINE, Mugho (Dwarf Strain)				8 to 10 ins., S.		8.00	75.00
2 to 4 ins., S.		4.00	35.00	SPRUCE, Norway			
4 to 6 ins., S.		5.00	45.00	6 to 8 ins., S.		5.00	45.00
PINE, Norway				8 to 10 ins., S.		6.00	55.00
2 to 4 ins., S.		4.00	35.00	10 to 12 ins., S.		8.00	75.00
4 to 6 ins., S.		5.50	50.00	SPRUCE, White			
				4 to 6 ins., S.		4.50	40.00
				6 to 8 ins., S.		5.50	50.00
				8 to 10 ins., S.		6.50	60.00
				10 to 12 ins., S.		8.00	75.00

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SHERMAN NURSERY CO., Charles City, Iowa



Hardy Northern-Grown Stock
at **WHOLESALE**

JEWELL NURSERIES, Inc.

Write for Price List.

Box 457, LAKE CITY, MINN.

job more attractive to the landscape contractor. Maintenance and guarantee might be given as separate items.

Pest Control

Prof. John O. Pepper, extension entomologist at the university, spoke on "Controlling Insects in the Nursery." He recommended dieldrin, either 50 per cent WP or 5 per cent GV, for controlling grubs in every 100 feet of seedbeds. The material should be mixed with water to spray or mixed with sand to scatter evenly over the area. It should be worked into the top two to five inches of soil with a Rototiller or by watering. Usually the material gives control for two to five years.

Professor Pepper mentioned some

of the more prevalent insects on nursery stock and gave control measures. The eastern tent caterpillar can be observed as soon as the first growth begins on wild cherry in small web masses; at that time, anything will kill them. Several scales are often found. For leucanium scale on taxus, use malathion the first 10 days of July. For oyster-shell scale on such plants as lilac, use oils in the dormant season or dinitro in June. For cottony maple scale, use malathion when the young are hatching, usually in late June and early July; make one or two applications at 10-day intervals. Do not use oil on maples. For euonymus scale, pine-needle scale and magnolia scale, use oil in the dormant season and malathion when the young are hatching

in June. Golden oak scale cannot be controlled by oil alone, but results are satisfactory if malathion is added and the spray is applied just before growth starts.

Aphis are not controlled by low temperatures; use malathion or nicotine sulphate about every week or 10 days. Malathion should be used on rhododendron for lace bug; apply in May, June and July. There are two kinds of spruce gall, which can be seen as white egg masses early in the spring as new growth begins. Either benzene hexachlor or lindane will give good control.

Monthly or more often, applications of malathion should be used for spider mites. DDT, heptachlor and lindane can be used for Japanese beetles. Leaf miners on birch are

DECIDUOUS SHRUBS

EXTRA-HEAVY, GRADED

	Each Per 100
ALMOND, PINK-FLOWERING	
1550 12 to 18 ins.	\$0.25
DOGWOOD, RED-TWIGGED	
420 12 to 18 ins. ....	.35
FORSYTHIA SPECTABILIS	
130 12 to 18 ins. ....	.30
FORSYTHIA SPRING GLORY	
1150 12 to 18 ins. ....	.30
FORSYTHIA ARNOLD	
GIANT DWARF	
320 12 to 18 ins. ....	.40
HONEYSUCKLE, PINK	
TARTARIAN	
430 12 to 18 ins. ....	.22½
1030 18 to 24 ins. ....	.27½
HONEYSUCKLE, ZABELI	
1700 12 to 18 ins. ....	.25
1100 18 to 24 ins. ....	.30
HYDRANGEA P. G.	
390 12 to 18 ins. ....	.27½
LILAC, PERSIAN	
610 12 to 18 ins. ....	.30
LILAC, PURPLE	
1150 12 to 18 ins. ....	.30
PHILADELPHUS VIRGINALIS	
360 12 to 18 ins. ....	.35
PRIVET, PYRAMIDAL ENGLISH	
2100 18 to 24 ins. ....	.25
500 2 to 3 ft. ....	.35
SPIRAEA ANTHONY WATERER	
430 15 to 18 ins. ....	.35
340 18 to 24 ins. ....	.45
SPIRAEA FROEBELI	
1150 15 to 18 ins. ....	.25
TAMARIX AFRICANA	
150 12 to 18 ins. ....	.20
280 18 to 24 ins. ....	.25
VIBURNUM OPULUS	
430 12 to 18 ins. ....	.30
350 18 to 24 ins. ....	.40
VIBURNUM OPULUS STERILE	
890 12 to 18 ins. ....	.35

SHADE TREES

	Each Per 100
MAPLE, SILVER	
500 5 to 6 ft.	\$1.25
1000 6 to 8 ft.	1.50
3000 8 to 10 ft.	2.00
1000 1¼ to 1½-in. cal.	2.75
1500 1½ to 1¾-in. cal.	3.50
SYCAMORE, AMERICAN	
500 6 to 8 ft.	2.00
1000 8 to 10 ft.	3.00
1000 1¼ to 1½-in. cal.	4.00
1000 1½ to 1¾-in. cal.	5.00
500 1¾ to 2-in. cal.	6.00

BORK NURSERY

Onarga, Ill.

Phone: AM 8-7267

controlled by using DDT or malathion in late May or early June. For most borers, six tablespoons of 50 per cent WP DDT per gallon of water used as a spray or paint gives good control.

General Purpose Spray

A general-purpose spray is DDT and malathion, mixed in the following proportions: DDT, two pounds, 50 per cent WP or one quart, 25 per cent emulsion; malathion, four pounds, 25 per cent WP or one and one-half pints 57 per cent emulsion. The wettable powder is a little safer to use than the emulsions. If the mite population builds up, add two pounds of Aramite to the spray.

"Diseases in the Seed and Transplant Beds" was discussed by Dr. C. F. Taylor, extension plant pathologist at the university. He recommended sanitation, such as picking up leaves and debris and burning. Crops should be rotated, if possible. Damping-off is one of the worst diseases, and there are dwarf fungi responsible. Chemicals or heat may be used for control, but it must be remembered control is only good as far as it penetrates. For most chemicals, the temperature must be 50 to 55 degrees, which usually means fall application. Among the good chemicals are methyl bromide, Chloropicrin and Vapam. All will control damping-off and nematodes.

Arasan can be used as a seed treatment—dust it on and sow. If damping-off starts in the seedbed, drenching with ferbam is recommended. It should be remembered that after soil in the bed has been treated, any organism which falls in can get a start.

Two of the speakers for the last day were unable to reach University Park, and so Prof. A. J. Gianfagna, extension floriculturist, and W. W. Trainer, supervisor of landscape maintenance and construction at the university, helped with the program. Professor Gianfagna showed slides and discussed briefly weed control, garden markets and propagation as he had observed them in the state. Mr. Trainer explained the planting practices on the campus and illustrated this talk with slides, showing the appearance of the plants in both fall and spring conditions.

SAM Q. STRICKLAND is starting a nursery and landscaping business at Reidsville, N. C.

JOHN S. MILLER is starting the J. S. Miller Nursery, Box 25, Kilgore, O., and intends to grow chrysanthemums and ornamental evergreens for retail sales.

MORE SALES WITH LESS TALK

SELL MORE EVERGREEN AZALEAS BY GIVING OUT FREE COPYRIGHTED PLANTING INSTRUCTIONS WITH EACH SALE. WE WILL SUPPLY THEM TO YOU WHEN YOU PURCHASE YOUR AZALEAS FROM US.

Send for our list.

THE BOSLEY NURSERY
MENTOR, OHIO

See our other ads on pages 60 and 64.

Specimen Landscape Materials Our Specialty . . . TAXUS



W. A. NATORP CO.

4400 READING ROAD
CINCINNATI 29, OHIO

Visit our nurseries when in Cincinnati

PFITZERS, B & B

Well-Sheared

	Each
24 to 30 ins.	\$2.50
30 to 36 ins.	2.75
36 to 42 ins.	3.25
42 to 48 ins.	3.50
Densiforma Yew	
20 ins.	5.00

NEUMANN BROS.

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ROSES

Quality and Service

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ROSE GROWERS, INC.**
MENTOR, O.

Write for your copy of
our current list.

Report Shows Active Plant Iowa Program

The "Plant Iowa" committee, under the chairmanship of Harold J. Parnham, Robinson & Parnham, Des Moines, past president of the Iowa Nurserymen's Association, carries on one of the most active state programs developed under the "Plant America" plan of the American Association of Nurserymen. A report of its achievements during the period from June 1, 1956, to November 1, 1957, was recently released by the Iowa State Horticultural Society.

Assisted by 35 cooperating organizations within the state, the committee lists the following among its accomplishments for the 18-month period: Trees planted — 54,337; plantings in wildlife areas — 2,296,136; roses planted in gardens, parks, roadways, etc. — 14,379, and park beautification plantings — 547.

The broad scope of the program, which includes youth instruction, is indicated in such activities as tree plantings in farm woodlots, contouring programs, plantings of woody plants to control erosion, pond construction and Christmas tree planting.

Meetings and ceremonies held during the year included 51 tree-planting ceremonies, with 84 organizations participating and approximately 3,054 persons in attendance. Thirty-five other meetings were held to promote plantings. From one youth organization 800 participated in farmstead improvement, 65 in forestry, 2,000 in home grounds improvement, 1,800 in wild life conservation and 3,500 in conservation. Ninety-three of the club members attended the state conservation camp, at which one of the highlights was a tree-planting ceremony.

The Iowa 4-H Girls' Clubs encourage members to participate in the conservation activity, which includes all phases of natural resources — soil, forestry, plants, water, rocks, fish and wildlife. Over 4,000 4-H girls reported participation in conservation, with about 6,500 reporting projects in home grounds beautification.

Another of the participating organizations reported a tree-planting project in which 150 flowering crab apples were planted in a local park. The same organization also planted 3,000 Douglas fir trees in another location.



Pfitzer Juniper



Forsythia Lynwood Gold (top)
Forsythia Spring Glory (bottom)



Pyracantha Kasan (top)
Pyracantha Lalandi (bottom)



Andorra Juniper

QUALITY STOCK

Andorra Juniper (Juniperus horizontalis plumosa), 6 to 10 ins.....	Each \$0.05
Euonymus patens Small, medium or large- leaved, 6 to 10 ins.....	.04
Pyracantha Kasan 5 to 6 ins.....	.08
Pyracantha Lalandi 5 to 6 ins.....	.05
Forsythia Spring Glory 6 to 10 ins.....	.04
Forsythia Lynwood Gold 6 to 10 ins.....	.05
Pfitzer Juniper 6 to 10 ins.....	.08

See classified ad under lining-out stock for other items. Less than 300, total order, add 2¢ per plant.

McININCH GREENHOUSES St. Joseph, Mo.

THE FRIENDLY EVERGREENS, by L. L. Kumlien. Planting propagation, culture, digging and transplanting. 237 p. 500 illus., 82 in color. \$10.00, postpaid. American Nurseryman, 343 S. Dearborn St., Chicago 4, Ill.

HANKOW CORKSCREW TREE (Salix matsudana tortuosa)

Unusual landscape addition to tree lawn or shrub border. Branches both large and small grow upward with an exotic corkscrew twist.

A charming hardy Oriental tree that will delight you and your horticulturally interested customers.

	Per Each	Per Dozen
6 to 8 ft.....	\$3.50	\$35.00

Pot plant liners, late spring, 1958, \$25.00 per 100.

BEARDSLEE NURSERY
PERRY, OHIO

COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade
Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.
ONARGA, ILL.



Lake County Nursery Industry

1858—A CENTURY OF PLANTING AND STILL GROWING—1958

By Marie Brandstaetter

During 1958, the Lake County Nurserymen's Association will commemorate the founding of the first nursery in Lake county 100 years ago. In connection with this centennial year, the association has planned a number of activities and projects to draw nation-wide attention to the horticultural progress achieved in this area. Simultaneously, the Lake County Nurserymen's Association, the oldest nurserymen's group in Ohio, is celebrating its 30th anniversary.

An official emblem and slogan have been adopted to mark these anniversaries, and a new membership roster booklet is now available. This booklet lists the names and addresses of members, the type of material grown and whether they sell at retail and/or wholesale. It also denotes those members who publish retail catalogs and wholesale trade lists. Copies of the booklet may be obtained from the secretary, Miss Marie Brandstaetter, 929 Murray avenue, Mentor, O.

The history of the nursery industry in Lake county forms an interesting narrative. An account of the region's rise to world prominence as a nursery center would necessarily include the efforts and plans of many pioneers in the Ohio nursery business since the time in 1858 when the first seedling fruit trees were planted by Jesse Storrs.

During the past century, many young men in the state have chosen horticulture as their vocation and built their hopes and dreams on this means of livelihood, which promised to develop into a thriving business. Those who had the perseverance, foresight and energy which are prerequisites for a venture of this nature met with success, and their firms are still flourishing today.

These persons are responsible for giving Lake county an important position on the nursery map of the world.

Why Lake County Was Chosen

Why was Lake county chosen by these pioneers and what are the reasons for its prominence in the field of horticulture? Several years previous to 1858, Jesse Storrs had been growing trees on an experimental basis in New York state, but before

deciding to continue with this work, he traveled considerably in quest of better soil and climatic conditions for the purpose.

He visited the south shore of Lake Erie, and, concluding that an ideal location for a nursery was in Lake county, situated in the northeastern section of Ohio, he purchased a small piece of land at Painesville. From this original tract of 80 acres, Mr. Storrs, his partner and other members of his family and staff built the foundation of a nursery which thrived until the 1940's.

The wisdom of Mr. Storrs' decision to locate in Lake county has been proved by the rapid development of horticultural enterprises in

the county. Today they total over 200 nurseries, according to the state division of plant industry, having approximately 5,000 acres in nursery stock under cultivation. The acreage for individual nurseries varies from 1,000 for the largest to less than an acre for the smallest.

The Lake county nursery belt averages from six to 10 miles in width and extends for about 20 miles along Lake Erie, with Painesville almost directly in the center. The temperature, general climatic conditions, natural water supply, drainage, moisture and other protective features attributed to Lake Erie, in addition to the all-important factor of the quality and diversity of

FREE AZALEA PLANTING DIRECTIONS

We not only grow the bushiest and most heavily budded azaleas you have ever seen, but at the same time we supply you with a free sheet of copyrighted planting instructions which you can pass out to your customers, assuring them of success. (Incidentally, these planting instructions will sell some peat for you at the same time.) In the spring your time is doubly valuable. Why waste time giving verbal instructions (which the customer promptly forgets) when we will supply you with FREE copyrighted instructions for all azaleas purchased from us? Get your azaleas ordered early to be assured of getting your supply from Bosley's.

BOSLEY NURSERY

MENTOR, OHIO

See our other ads on pages 58 and 64.

VIBURNUMS

18 varieties in different grades. Special offering on *Viburnum carlesii*.

Standard-stemmed *Viburnum carlesii* in 1 to 3-yr. heads, grafted on sturdy *Viburnum lantana* stems, 3½ to 4 ft. tall.

Write for special list on these and other items.

WYOMING NURSERY

C. E. Kern

34 Vermont Ave.
Cincinnati 15, O.

Direct from Grower to You

BELGIUM-GROWN

T. R. BEGONIAS and GLOXINIAS

Finest-Quality

Arthur van Speybroeck

La Pinte-lez-Gand (Belgium)

Sole Representative:

VERONA GARDENS

Rt. 5

Battle Creek, Mich.



Scarff's Nursery, Inc.

Tel. Victor 5-2561

New Carlisle, Ohio

—Finest Miami Valley Grown Stock—

Small Fruits

Complete List of

Berry Plants

Currants — Gooseberries

Asparagus — Rhubarb

—EXTRA SPECIAL— Euonymus carrierei and Newport B&B Specimens

15 to 18 ins., \$1.00 each
18 to 24 ins., \$1.25 each
Write for Bare-Root Prices

Evergreens

Specimen Plants for

Landscaping

or Garden Center Sales—

Excellent Color—

Solid Clay B&B

We will appreciate your visit to our nursery; otherwise check our Trade List for prices on evergreens.

Ornamental Shrubs

Heavy 2 and 3-year plants
(1000 rate 50 each less)

	Each
Barberry, red, 18 to 24 ins.	100 rate \$0.40
Barberry, mentorensis, 18 to 24 ins.	.50
Calycanthus floridus, 2 to 3 ft.	.50
Caryopteris incana, 2-yr., field, No. 1	.35
Euonymus alatus, 2 to 3 ft.	1.00
2 to 3 ft., smooth strain	.60
Forsythia Arnold Dwarf, 18 to 24 ins.	.40
Forsythia Lynwood Gold, 3 to 4 ft.	.50
Forsythia spectabilis, 3 to 4 ft.	.45
Hamamelis vernalis, 3 to 4 ft.	.50
Hydrangea paniculata grandiflora,	
2 to 3 ft., heavy	.50
Hypericum kalmianum, 18 to 24 ins.	.40
Ligustrum, Regel's, 18 to 24 ins.	.30
24 to 28 ins. (True Type)	.40
Lonicera Clavey Dwarf, 15 to 18 ins.	.35
Lonicera fragrantissima, 2 to 3 ft.	.45
Lonicera Gold Flame (Vine No. 1)	.35
Lonicera zabell, red, 3 to 4 ft.	.45
4 to 5 ft.	.50
Philadelphus virginialis, 3 to 4 ft.	.60
Photinia villosa, 2 to 3 ft.	.40
Rhodotypos kerrioides, 3 to 4 ft.	.50
Rhus cotinus, 2 to 3 ft.	.50
Salix caprea, 4 to 5 ft.	.40
(Large French Pussy Willow)	
Spiraea Anthony Waterer, red,	
18 to 24 ins.	.45
Spiraea arguta, 3 to 4 ft.	.50
Spiraea vanhouttei, 3 to 4 ft.	.40
Syringa microphylla, 2 to 3 ft.	.65
Syringa vulgaris, 2 to 3 ft.	.50
Viburnum lantana, 3 to 4 ft.	.55
Viburnum prunifolium, 3 to 4 ft.	.50
Viburnum siceboldi, 2 to 3 ft.	.50

Lining-Out Stock

	Each	1000 rate
Barberry, Crimson Pymy		
3 to 4 ins., 2-yr., T.		\$0.25
Clematis paniculata,		
2-yr., S.	.12½	
Euonymus alatus compactus,		
4 to 6 ins., 2-yr., T.	.16	
Hamamelis vernalis,		
4 to 6 ins., S.	.08½	
6 to 9 ins., S.	.10	
Koeleruteria paniculata,		
12 to 18 ins., 2-yr., S.	.16	
18 to 24 ins., 2-yr., S.	.20	
Ligustrum Vicary Golden,		
Rooted cuttings	.07½	
Field liners, 6 to 10 ins.	.15	
Philadelphus aureus, 2-in. pots	.12½	
Prunus subhirtella pendula,		
12 to 18 ins., S.	.12½	
18 to 24 ins., S.	.17½	
Rhodotypos kerrioides,		
10 to 15 ins., S.	.08½	
Spiraea Anthony Waterer,		
4 to 6 ins., T.	.10	
Spiraea coccinea, 4 to 6 ins., T.	.10	
Viburnum carlesii, 4 to 6 ins., S.	.12½	
6 to 9 ins., S.	.18	
9 to 12 ins., S.	.22½	
Viburnum opulus sterile,		
2-in. pots	.12½	
Viburnum wrightii,		
12 to 15 ins., S.	.10	
15 to 18 ins., S., T.	.15	

EVERGREENS

Taxus capitata,	
3-yr., S., T., 6 to 9 ins.	.25
9 to 12 ins.	.30

Send for Complete Trade List and Prices of Fruits, Ornamental Shrubs, Vines, Evergreens, Special Mail-Order Items and Lining-Out Stock.

soil types to be found there, make it possible to grow a wide variety of products.

Shipping Advantage

Its centralized location for shipping became very important in later years, when facilities for packing and shipping nursery products improved, making it possible to ship to distant points with safety. When the St. Lawrence seaway is completed, nurserymen will be in a position to ship and receive with still greater ease, thereby expanding to other markets and bringing foreign shores closer to hand.

Because of these natural conditions, unusually conducive to plant health and vigorous root growth, nurserymen were able to attain a standard which soon made Lake county the nation's largest nursery center. Because of these same natural conditions, combined with diligent study and application of scientific methods, this standard of quality is higher than ever. Horticultural

products from this area have found their way over the entire United States as well as to markets the world over.

Because Lake county has become a large nursery community, it attracts buyers from all parts of the country, thereby presenting a selling advantage. In recent years, many horticulturists from other lands have visited in Lake county to observe methods of operation at some of the larger nurseries.

Soon after Jesse Storrs started his nursery, he was approached by J. J. Harrison, of Painesville, who also was considering establishing a nursery. After discussing the matter, Mr. Storrs was of the opinion that Lake county could not support two nurseries and he suggested that they enter into a partnership.

Mr. Harrison had gained considerable experience in the grafting of fruit trees and other forms of horticultural reproduction and enjoyed a wide reputation among the orchardists of the country. The practical

knowledge of the two partners was mutually beneficial. In this manner Storrs, Harrison & Co. was formed, and, for \$1,500, Mr. Harrison purchased one-half interest in the growing nursery stock. This shows, more than any other transaction on record, the small beginning of a great industry.

In 1907, 29 nurseries were in existence in Lake county, representing 1,600 acres. The value of nursery products sold in 1930 was \$800,000, and, by 1940, there were 78 nurseries with 3,000 acres, selling almost \$2,000,000 worth of stock. The last available census figures are those of 1954, when 133 licensed nurserymen were registered, with an acreage of 2,864. Their income from nursery and greenhouse products sold was approximately \$4,600,000, representing 64 per cent of the total agricultural income in Lake county. In that year, there were 844 nurserymen in Ohio, with a total of 7,600 acres.

After the Civil War, several other nurseries were started and continued



Bundle of Washington Hawthorn

Washington Hawthorn		
2-yr., 6 to 9 ins., R.P.	Per 100	Per 1000
2-yr., 12 to 18 ins., R.P.	\$ 7.50	\$ 65.00
	22.50	200.00
Prunus tomentosa		
6 to 12 ins.	8.50	75.00
12 to 18 ins.	12.50	100.00
Viburnum dentatum		
6 to 12 ins.	8.50	75.00
Viburnum lentago		
6 to 12 ins.	8.50	75.00
Red Barberry		
3 to 6 ins.		35.00

1500 Viburnum dentatum
18 to 24 ins., look like transplants,
selected from 2-yr. seedlings.
\$20.00 per 100; \$150.00 per 1000.

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Newport, Mich.

ILEX ROTUNDIFOLIA		
Heavily rooted, field-grown shrubs. Bare-root only.		
8 to 10 ins.	Per 100	Per 1000
10 to 12 ins.	\$40.00	\$350.00
12 to 16 ins.	50.00	450.00
	75.00	675.00

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until the early part of the 20th century, when they were disbanded. In the meantime, Storrs, Harrison & Co. continued to grow, the firm being incorporated in 1881. Their first plantings were in grape cuttings, apple seedlings, Norway spruce seedlings and a general assortment of transplanted orchard fruits and berries.

The neighboring farms were their first market, and the young partners were soon looked upon with respect as the success of their venture became evident. Demand for their marketable produce increased, so that each year required greater acreage and a wider range of materials. Farm after farm had been added to their holdings, which in 1881 totaled about 300 acres in nursery stock.

They had also built well-arranged greenhouses and storage cellars. As rapidly as possible, they started other good varieties of fruit trees and berry plants. A seed business was added, and bulbs were imported from abroad for autumn sales. Despite the whims of nature that nurserymen must cope with and financial crises and panics, the businessmen persisted tenaciously, making progress despite adversities.

J. J. Harrison was a prominent member of the A. A. N. and perhaps one of the best known nurserymen in the country. Other members of the company also were well known to propagators and plantmen the country over and were well posted on plant improvement and latest introductions during their period of leadership. Many local nurserymen served their apprenticeship at Storrs, Harrison & Co. By 1927, the firm had developed the largest departmental nursery in the world, with about 1,500 acres and as modern facilities as the times offered in packing and storage houses, greenhouses, etc.

1879 Catalogs

The Storrs, Harrison & Co. catalog of 1879-80 was a 72-page publication with a colored etching of pyramidal arborvitae on the inside front cover. Interspersed through the book were many black and white illustrations or engravings of fruits, trees, shrubs, roses and other stock. At that period, the company was already issuing five catalogs. One was a descriptive catalog of fruit and ornamental trees without price listings. As previous editions were exhausted, this catalog was revised and reissued.

A second catalog of 80 pages, entitled "Spring Catalog of New and Rare Plants," was published in Jan-

SURPLUS FOR SPRING SHIPMENT

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Halehaven, Elberta, Golden Jubilee

	Each
3/4-in. cal. and up.	\$80.00
1 1/16-in. cal. and up.	45
9/16-in. cal. and up.	40
Deduct 5c each at 1000 rate—300 at 1000 rate.	

LINERS

	Per 100	Per 1000
Green Barberry, 6 to 9 ins.	\$ 5.00	\$ 40.00
European Mt. Ash, 6 to 9 ins.	6.00	50.00
Viburnum lentago, 2-yr., 10 to 12 ins.	7.50	60.00
2-yr., 12 to 18 ins.	9.00	75.00
2-yr., 18 to 24 ins.	12.00	100.00
2-yr., 24 to 30 ins.	15.00	120.00
1-yr., 4 to 8 ins.	6.00	50.00
Rhodotypos scandens, 2-yr., 15 to 18 ins.	10.00	80.00
2-yr., 18 to 24 ins.	12.00	100.00
Blue Arctic Dwarf Willow, 12 to 15 ins.	8.00	70.00

FLOWERING CRAB APPLE GRAFTS

Strong, 1-yr., in field beds.

	Per 100	Per 1000
Malus Almey	\$25.00	\$200.00
Malus eleyi	25.00	200.00
Malus Red Silver	25.00	200.00

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Jones Rd. Carleton, Mich.

SPRING, 1958

MAPLE, Crimson King	
1 to 1 1/2-in. cal., B&B.	\$ 7.95
1 1/2 to 2-in. cal., B&B.	11.65
MAPLE, Norway	
1 1/2 to 2-in. cal., B&B.	11.65
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2 to 2 1/2-in. cal., B&B.	17.65
2 1/2 to 3-in. cal., B&B.	23.50
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HONEY LOCUST, Thornless	
1 to 1 1/2-in. cal., B&B.	6.95
1 1/2 to 2-in. cal., B&B.	9.95
2 to 2 1/2-in. cal., B&B.	16.50
2 1/2 to 3-in. cal., B&B.	23.50
50% discount if you dig your own trees. All trees are specimen stock.	

JUNIPER, Hetzi (Blue Pfitzer)	
15 to 18 ins., B&B.	2.25
18 to 24 ins., B&B.	2.75

HEMLOCK, Canadian	
2 to 2 1/2 ft., B&B.	2.75
2 1/2 to 3 ft., B&B.	3.50

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uary and included greenhouse and bedding plants. Semiannual trade lists were published. A bulb catalog, which included winter-blooming plants, was also issued, as well as a special catalog listing only such stock as small fruits and grapevines.

Storrs, Harrison & Co. termed the nursery business "a profession that is doing its full share to supply the wants of an enlightened age in furnishing choice varieties of fruits essential to the highest enjoyment and development of our physical being and also furnishing the beautiful in tree, shrub and flower to minister to the aesthetic in our nature."

In leafing through the fruit catalog, one finds considerable publicity regarding the "profits of fruit culture." Detailed cultural information was given for all types of fruit and berry plants. An extensive list of deciduous trees, shrubs, evergreens and rhododendrons was also included, as well as vines and trailing plants. Hardy perpetual roses and many species types were considered important, because the hybrid tea rose had not been developed that would withstand extreme winter temperatures. They advertised a choice selection of tree roses imported from France. The list of perennial plants was rather short and included such items as achillea, Anemone japonica, campanula, lily of the valley, Dicentra spectabilis, dianthus, Eranthis ravennae, iris, hibiscus, sedum and Tritoma uvaria. Among the bulbs listed were gladiolus, tigridia, vallota, crocus, colchicum, fritillaria, galanthus, hyacinth, narcissus, tulip and Lilium auratum and candidum.

Subsequent articles on Lake county's nursery industry will tell of more pioneers in the area and of the organization of the Lake County Nurserymen's Association in 1927.

FRUIT TREE VIRUS ILLS

[Continued from page 15]

these blocks provide healthy material that has usually given fewer failures in the nursery row and a higher proportion of first-grade trees (figure 1).

Tree Vigor Reduced

The effect of mild virus infection on the growth of nursery trees has been studied in America chiefly with the Montmorency sour cherry, which is considerably dwarfed by the necrotic ring spot virus. In England, virus-free Beurre Hardy pears on Quince A stocks grew much more vigorously than those with a virus that is latent in orchard trees and

Nursery Liners and Christmas Tree Stock Spring, 1958

	Per 100	Per 1000	Per 1000 for 10,000 or more
Riga Scotch Pine			
* (2-0), 6 to 10 ins.....	\$10.00	\$ 36.00	\$35.00
* (2-0), 4 to 8 ins.....	7.50	26.00	24.00
(2-0), 3 to 6 ins.....	6.00	24.00	22.00
(2-0), 2 to 4 ins.....	5.00	16.00	14.00
Scotch Pine, Auvergne, race Noble (So-called French blue)			
(2-0), 3 to 6 ins.....	7.50	26.00	24.00
*Austrian Pine			
(2-0), 3 to 5 ins.....	6.00	24.00	22.00
*Douglas Fir, caesia, green to gray			
(2-0), 4 to 8 ins.....	6.00	28.00	26.00
*Douglas Fir, taxifolia glauca, green to blue			
(2-0), 4 to 8 ins.....	6.00	28.00	26.00
Colorado Blue Spruce			
* (3-0), 4 to 8 ins.....	9.00	45.00	42.50
(3-0), 2 to 4 ins.....	6.00	26.00	24.00
Black Hills Spruce			
* (3-0), 4 to 8 ins.....	8.00	40.00	37.50
(3-0), 2 to 4 ins.....	6.00	25.00	23.00
White Spruce			
* (3-0), 5 to 10 ins.....	8.00	45.00	40.00
(3-0), 3 to 5 ins.....	6.00	25.00	23.00
Norway Spruce			
(3-0), 5 to 10 ins.....	8.00	45.00	40.00
(3-0), 3 to 5 ins.....	6.00	25.00	23.00
Mugho Pine, Montana			
4 to 6 ins., X.....	25.00	150.00	.....
Mugho Pine, Tyrolean			
(2-0).....	5.00	30.00	.....
Ponderosa Pine			
(2-0), 2 to 5 ins.....	5.00	22.00	.....
Norway Pine			
(2-0), 2 to 4 ins.....	5.00	20.00	.....
White Pine			
(2-0), 2 to 4 ins.....	5.00	20.00	.....
Taxus cuspidata capitata from seed, sheared			
8 to 12 ins., XX.....	80.00	.....	.....
6 to 8 ins., XX.....	45.00	.....	.....
White Birch			
2 to 4 ft., XX.....	75.00	.....	.....

*Write for price on 50,000 or more.

TERMS: Cash with order, please, or 1/3 deposit, balance before shipment. 50 at 100 rate, 500 at 1000 rate, all seedlings sold in multiples of 50, all transplants sold in multiples of 10. Minimum order \$10.00. Packing charges included in price of trees.

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Cornus Florida

	Each
5 to 6 ft., B&B	\$ 5.50
6 to 7 ft., B&B	6.50
7 to 8 ft., B&B	7.50
8 to 9 ft., B&B	\$ 9.00 to 12.00
8 to 10 ft., B&B	12.00 to 18.00

Euonymus alatus

2 to 3 ft., B.R.	1.00
2 to 3 ft., B&B	1.50
3 to 4 ft., B.R.	1.25
3 to 4 ft., B&B	1.75
4 to 5 ft., B.R.	1.75
4 to 5 ft., B&B	2.50

Euonymus alatus compactus

18 to 24 ins., B.R.	.80
18 to 24 ins., B&B	1.25
24 to 30 ins., B.R.	1.00
24 to 30 ins., B&B	1.50

Pennsylvania Bayberry

2 to 3 ft., B&B	2.00
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EVERGREEN LINERS

Heavy, rooted, 2 1/4-in. pots.
Spring, 1958, delivery.

	100	1000
ARBOREVITAE		
American Dark Green	\$20.00	\$175.00
Globe Woodward	20.00	175.00
JUNIPER		
Andorra	20.00	175.00
Pfitzer	25.00	200.00
Savin	20.00	180.00
Siberian	20.00	180.00

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Stock grown on sandy loam,
good, heavy, fibrous roots.

	100	1000
Arbovitae, American		
4 to 6 ins., 2-yr.	\$4.00	\$35.00
6 to 9 ins., 2-yr.	5.00	45.00
Pine, Austrian		
6 to 9 ins., 2-yr.	5.00	45.00
Pine, Mugho		
2 to 4 ins., 2-yr.	4.00	35.00
4 to 6 ins., 2-yr.	5.00	45.00
Pine, Ponderosa		
6 to 9 ins., 2-yr.	4.50	40.00
9 to 12 ins., 3-yr.	5.50	50.00
12 to 18 ins., 3-yr.	6.50	60.00
Spruce, Colorado Blue		
4 to 6 ins., 2-yr.	5.00	40.00
2 to 4 ins., 2-yr.	4.00	35.00

THE LAKE CITY NURSERIES, INC.
LAKE CITY, MINN.

induces only slight vein yellowing in nursery trees (table 1). Two-year-old apple trees with mosaic were only two-thirds the size of comparable healthy trees. Symptomless sweet cherry trees infected with any one of the viruses were smaller by about 30 per cent than virus-free trees of the same age.

It might be argued that growers are more interested in dwarf than in vigorous trees, but there are two good reasons why size should be restricted by rootstock type, not by virus infection. First, the virus-infected trees vary much more in size than healthy trees and, second, they yield a smaller crop. In a field trial, sweet cherry trees dwarfed by virus infection produced less fruit than healthy trees in proportion to the degree of stunting; they did not bear earlier and yield a bigger crop at first, as do trees on dwarfing rootstocks.

Healthy apple trees produced more apples than did trees infected with mosaic, even with a mild strain of the virus that caused practically no leaf symptoms. The four varieties in the trial differed in the degree of crop reduction, Cox's Orange Pippin (figure 2) being intermediate between the tolerant Newton Wonder and the sensitive Allington Pippin.

Costly Fruit Losses

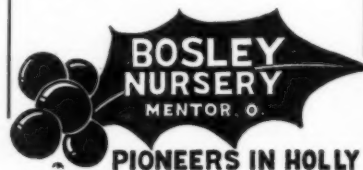
The diseases that require special attention, both because of their economic importance and because they do not reveal themselves in young trees, are those that cause blemishes on the fruit without obvious symptoms elsewhere on the plant. One has but to estimate the cost of growing trees to bearing age, only to find that their fruit is inedible or unsalable, to realize the losses that can be attributed to little cherry, plum pox, pear stony pit, apple chat fruit, rough skin, star crack and scar skin. The mere names of these diseases emphasize the hazards of collecting scion wood indiscriminately from young trees or from bearing trees whose fruit has not been inspected carefully.

Trials are now in progress at East Malling to study the effect of many different viruses on the growth and cropping of apple, pear, plum and cherry trees. This information is overdue, but was unobtainable until virus-free material of commercial varieties had been selected, propagated and specifically inoculated with the different viruses. The health of fruit trees cannot be judged by eye; an apparently healthy tree may carry latent viruses that do not ob-

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California Privet

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18 to 24 ins.	.09
24 to 36 ins.	.12

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ILEX ROTUNDIFOLIA

	Per 10	Per 100
Rooted cuttings	\$2.25	\$10.00
2 1/4-in. pots, 1-yr.	5.50	18.00
9 to 12 ins., 2-yr., XX, bed.	7.00	60.00

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Send for price list.

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viously affect its cropping, but may seriously affect the growth of young trees propagated from it. Specific indicator plants are needed to reveal the presence of these latent viruses, and when these indicators are used in virus trees they sometimes show that all available scion wood of a particular variety is infected.

Eliminating Viruses

Methods of freeing scion wood from infection have been developed, heat treatment being the one most widely used. A few viruses can be eliminated from budwood by short periods of immersion in water at 50 degrees centigrade; most can withstand this treatment, however, and virus-free material can be obtained only from the new growth of plants maintained at about 37 degrees centigrade for several weeks. The techniques involved are beyond the resources of most nurserymen and they must depend on research stations, just as the plant pathologist must rely on the cooperation of the growers to apply the results of his research.

NEW PEARS INTRODUCED

Fruit growers now have a choice of several new varieties of pears, which show great promise. Most of these pears have been developed by fruit breeders at New York state experiment station, Geneva, N. Y.

Chapin, a seedling of Seckel, was introduced by the station in 1946. It is an early dessert variety for home fruit and for roadside stand sales. It ripens early in August and can be picked over a long season. The fruit is medium-sized, attractive and juicy, with a good flavor.

"Bartlett is by far the most important variety in New York," according to Dr. Robert C. Lamb, station pomologist. Two seedlings of Bartlett are also showing up well. One of these, known as NY 7620, may be a possible replacement for Clapp Favorite, as it ripens with that variety but keeps longer. The other selection, NY 4885, ripens a week later than Bartlett and is highly productive of large-sized fruits.

Gorham, another Bartlett-type sort introduced by the station in 1923, is being grown to lengthen the Bartlett season.

Among later varieties are Ewart and Dumont. Ewart is a large-fruited, productive variety that will keep in storage until December. Dumont, an old European pear, is an attractive, high-quality sort. It is recommended chiefly for home use until its productiveness can be determined.

LINING-OUT STOCK

	Each 100 rate	Each 1000 rate	Each 2500 rate
RED-LEAVED BARBERRY (<i>thunbergii atropurpurea</i>)			
6 to 9 ins., 2-yr., S., light	\$0.05 1/2	\$0.04 1/2	\$0.04
15 to 18 ins., 2-yr., S.	.18	.15	..
1 1/2 to 2 ft., 2-yr., S.	.20	.17	.15
COTONEASTER horizontalis, 2 1/4-in. pot	.30	.25	..
COTONEASTER divaricata, 8 to 12 ins., 2-yr., T.	.28	.25	.22
EUONYMUS alatus, 2-yr., pot	.30	.28	.25
PYRACANTHA lalandi, 4-in. pot, selected strain	.50	.40	..
SORBUS aucuparia, 4 to 6 ins., 1-yr.	.07	.06	..
TAXUS cuspidata, 2-yr., pot	.30	.28	.25
TAXUS cuspidata, 2-yr., from plant bands	.30	.28	.25
TAXUS cuspidata, 5-yr., T., bare-root	1.65	1.35	..
TAXUS cuspidata capitata, 2-yr., pot, C.	.30	.28	..
TAXUS cuspidata capitata, 2-yr., bands, C.	.30	.28	.25
TAXUS intermedia, Serbian strain, 2-yr., pot	.30	.28	..
WEIGELA vaniceki, 2 to 3 ft., 2 to 3 br.	.28	.25	.22

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Our method of propagation encourages thick fibrous roots. We invite you to take a look at these.

	Each 100 rate	Each 1000 rate	Each 2500 rate
Taxus cuspidata	\$0.12	\$0.10	\$0.09 1/2
Taxus henryi	.14	.12	.11
Taxus media browni	.14	.12	.11
Taxus media hicksi	.12	.10	.09 1/2
Thuja woodwardi	.12	.10	.09 1/2

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	Each Per 10	Each Per 100	Each Per 1000
CHINENSIS BLAAUWI			
Blue, vase shape	\$0.80	\$0.75	\$0.70
CHINENSIS DENSERECTA			
SPARTAN, T.M. Cottage			
Gardens introduction.			
Upright, fast grower.			
Try a few	.90	.85	.80
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Compact pyramid.			
Fast grower,			
silvery-green	.80	.75	.70



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Per 100 Per 1000
Rooted cuttings \$ 5.00 \$ 45.00
2 1/4-in. pots 15.00 135.00

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Rooted cuttings 5.00 45.00
2 1/4-in. pots 15.00 135.00

GILSON GARDENS, Perry, O.

PLANT NOTES HERE AND THERE

By C. W. Wood

Crassina Grandiflora

A Kentucky reader recently asked for information on *Crassina grandiflora*. This is the western composite which we are now told to call *Zinnia grandiflora*. No wonder that I, a mere gardener, once called it in this column, after having *Crassina grandiflora* in my trials, a "zinnia-like plant," having "the appearance of a tiny, yellow zinnia." Coming from dry mountainsides in the west, from Colorado southward, it should be easy to grow in eastern gardens, but it proved to be quite short lived in my trials.

I do not remember where my seeds came from, but a southern source could have made the plants tender to the severe cold sometimes encountered here in northern Michigan. No doubt it would be entirely hardy in Kentucky. It produced tufts of small linear leaves, from which arose stems to six or eight inches in height, bearing little yellow rays surrounding a reddish disk. From its behavior here, where it suffered from spring damp, I suspect that it would require good drainage, and I have heard that it needs a soil containing much lime.

Hardy Cyclamen

It has been my intention for some time to do a little piece on hardy cyclamen, and the occasion for it arose recently in an exchange of letters with a Massachusetts reader. I am attempting it despite the fact that my experience with them, because of lack of hardiness of many kinds in this northern climate, has been too limited for a thorough appraisal. It must be remembered, then, that most of my cultural experience has been with plants in pots.

Cyclamen africanum, formerly called *C. autumnale*, is definitely not for outdoor culture (it comes from Algiers) in the north, for all its activities commence in autumn, hence the old name, *autumnale*. Its flowers are a pale to dark rose, each petal having a purplish-red base. Its large leaves, which gave rise to another name, *macrophyllum*, are kidney-shaped, toothed and wavy-margined, with pretty silvery marblings and purplish backs. All these characteristics make it a lovely plant. Experi-

ence here in northern Michigan would indicate that most of the kinds grow better in partial shade, and all are better for protection from strong winds.

If I were growing them outdoors in borderline sections, I would be particular to protect the corms from severe freezing by providing them with hand glass protection. In my trials, a light soil containing leaf-mold and lime seemed best. The kinds with small corms should be planted with the corm just barely covered; the ones with large corms (*C. africanum* is said to produce them in nature as much as eight or ten inches in diameter) should be planted about a third out of the ground.

I am not sure that I ever had the true *C. alpinum*; and if the "Hortus" list includes all the recognized cyclamens, there may not be such a species. But Europeans speak of it confidently as a distinct plant

from the Taurus mountains in Asia Minor, with a small brown corm; small, kidney-shaped leaves, dark green above (with faint silver marbling) and purple beneath, and large flowers of rose pink, with a purple blotch at the base of each petal. It appears from these writings that the plant is similar to *C. cilicicum*, which in turn is similar to the widespread (southern Europe to Persia) *C. coum*. It is all rather confusing to a mere gardener; so one can, unless he is a confirmed collector, content himself with *C. coum* and be assured of a satisfying garden subject. It is more readily available, too.

With the exception of *C. europaeum*, whose hardiness makes it the best for the north, *C. coum* is the most popular among experienced gardeners in this country. Although it was never reliably hardy here, I am sure that, with some care, such as placing it in protected places in wooded areas and mulching, it could

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Showpiece*, sparkling rose and silver-mist.

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Perry, O.

be made permanent. The English like to plant it among ferns. Here it is a spring bloomer, producing first the small, kidney-shaped leaves and then a long succession of small flowers, varying in color from rosy red to purple, on stems about three inches high. In the south it should bloom from December until spring. It was one of the most floriferous in my trials.

Stock of *C. europaeum* from central Europe makes the most reliable plants for northern gardeners. And they are so accommodating that they would fit into the schedule of the busiest gardener. Gardeners in western Europe say to plant *C. europaeum* anywhere in sun or shade, rich or poor soil, and forget it. In the middle west, however, I found that partial shade, a leafy soil and some watering in dry weather insured its continued success — continued success in this case meaning many pink to red flowers, like pretty butterflies, hovering over the tufts of faintly marbled, evergreen leaves on 5-inch scapes. In a race of generally pleasantly scented plants, this is one of the most fragrant.

From the Caucasus comes a pretty little spring-flowering species, curiously called *C. ibericum*. It makes a clump of small, heart-shaped leaves, faintly silvered in zones and wavy-margined. But before that, there commences a 2-month procession of lovely rose to purplish flowers, each segment with a crimson blotch at the base, on scapes to three inches in length. It is easy to satisfy in a half-shady spot and a limy soil.

A late summer and autumn season of flowering and some of the loveliest foliage in the genus, together with a fair degree of hardiness, make *C. neapolitanum* one of the most desirable of the larger kinds. With leaves to four inches across, green above, with lovely silvery markings, and purple below, it usually blooms from August

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25,000 2 to 3 ft.....	4.00	35.00
18,000 3 to 4 ft.....	5.50	50.00
2000 4 to 5 ft.....	7.00	65.00
Ash, White		
7200 6 to 12 ins.....	1.50	12.00
2000 12 to 18 ins.....	2.25	20.00
5000 2 to 3 ft.....	4.00	35.00
3400 3 to 4 ft.....	5.50	50.00
1700 4 to 5 ft.....	7.00	65.00
Ash, American Mountain		
6000 6 to 12 ins.....	6.50	60.00
5000 12 to 18 ins.....	10.00	90.00
Elm, American		
10,000 6 to 12 ins.....	1.40	12.00
10,000 12 to 18 ins.....	2.40	20.00
20,000 18 to 24 ins.....	2.80	25.00
20,000 2 to 3 ft.....	4.00	35.00
10,000 3 to 4 ft.....	5.00	45.00
Elm, Chinese		
5000 6 to 12 ins.....	1.40	12.00
1000 18 to 24 ins.....	3.00	28.00
3000 2 to 3 ft.....	4.50	40.00
2000 3 to 4 ft.....	6.50	60.00
500 4 to 5 ft.....	9.00	80.00
Hackberry		
2000 18 to 24 ins.....	4.50	40.00
700 3 to 4 ft.....	9.00	80.00
Willow, Golden		
5000 4 to 5 ft.....	6.00	55.00
1000 5 to 6 ft.....	6.50	60.00
Willow, Laurel-Leaved		
900 12 to 18 ins.....	2.25	20.00
3700 2 to 3 ft.....	4.50	40.00
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2900 4 to 5 ft.....	6.00	55.00
1500 5 to 6 ft.....	6.50	60.00

SHRUBS

Per 100 Per 1000

Caragana arborescens, seedlings		
5000 3 to 6 ins.....	\$ 1.35	\$ 12.00
4000 6 to 12 ins.....	2.10	18.00
Cornus baileyi (Red-Twigged Dogwood)		
3000 12 to 18 ins.....	7.00	65.00
1000 18 to 24 ins.....	8.00	75.00
3000 2 to 3 ft.....	10.00	90.00
Cotoneaster acutifolia		
5000 3 to 6 ins.....	2.75	25.00
10,000 9 to 12 ins.....	5.50	50.00
5000 12 to 18 ins.....	8.00	70.00
Currant, Alpine		
9000 1 to 3 ins.....	5.50	50.00
5000 6 to 9 ins.....	11.00	100.00
1500 9 to 12 ins.....	13.50	120.00
Honeysuckle, Morrowi		
1000 12 to 18 ins.....	7.00	65.00
Potentilla fruticosa (seedlings)		
4000 3 to 6 ins.....	4.50	40.00
10,000 6 to 9 ins.....	6.50	60.00
8000 9 to 12 ins.....	7.50	70.00
10,000 12 to 18 ins.....	9.50	85.00
Spiraea Anthony Waterer, 1-yr., in beds		
4000 3 to 6 ins.....	7.00	65.00
2500 6 to 9 ins.....	10.00	90.00
Viburnum lentago (Nannyberry)		
800 6 to 12 ins.....	6.50	60.00

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through October, during which period it sends aloft soft pink to reddish flowers with a crimson center. It is one of the easiest to satisfy, requiring only a light soil and part shade, with some protection for its foliage.

Specialists give minute details about the exact time and exact soil mixture to use in sowing seeds of the different varieties. It is my opinion, formed after a number of experiments, that fresh seeds may be sown whenever they are available in a light soil. The individual seedlings should be transplanted to small pots when large enough to handle and wintered in a protected frame.

Some specialists say to cut up the

corms, leaving an eye in each piece, and root the pieces in a close frame. I should expect this practice to be burdensome so long as seeds are available. Seeds should be fresh, however, for good germination. For example, I once planted almost a pound of mixed cyclamen seeds, the gift of a European friend, and did not get a single plant because the seeds were old.

Kniphofia Galpini

Last summer I saw a planting of the torch lily, *Kniphofia galpini*, that brought back pleasant memories of having it in my trials in the early 30's. It should be more common in

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	Each	Each
	5 to 24	25 to 100
Cornus Florida (White-Flowering Dogwood)		
5 to 6 ft., well-br., B&B.	\$3.50	\$3.25
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18 to 24-in. spread, B&B.	3.00	2.75
24 to 30-in. spread, B&B.	3.50	3.25
30 to 36-in. spread, B&B.	4.00	3.75
Magnolia soulangeana , early pink-flowering.		
2 to 3 ft., br., with buds, B&B.	3.50	3.25
3 to 4 ft., br., with buds, B&B.	4.00	3.75
Magnolia niger , red-flowering		
2 to 3 ft., br., with buds, B&B.	3.50	3.25
3 to 4 ft., br., with buds, B&B.	4.00	3.75
Taxus cuspidata (Spreading Japanese Yew)		
12 to 15-in. spread, B&B.	3.50	3.25
15 to 18-in. spread, B&B.	4.00	3.75
18 to 24-in. spread, B&B.	4.50	4.25
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sections where it can stand the winters, but just where that would be I am unable to say, though it would probably be safe south of the latitude of St. Louis. Finding it again sent me to my notebooks, and this is what I found: *K. galpini* is a plant with grassy foliage, almost erect, and orange-salmon flowers all during late summer.

Although it was not hardy here, I wintered it in a cellar for several years, and it could be handled that way in any garden without too much bother. I notice now that "Hortus" credits it with a height of three feet, which is no doubt correct for rich soil where the plants do not have to be disturbed by digging and storing. I thought at the time it was in my trials that it was one of the best of the torch lily species.

Himalayan Knotweeds

Most Himalayan knotweeds are too tender for my northern Michigan climate, suffering most from burning of the evergreen leaves in late winter and early spring. Even the best known one in this country, *Polygonum affine*, and reputedly one of the hardiest, was never completely satisfactory unless it was given special care to keep the sun and wind from it when bare of snow in cold weather. Another, *P. sphaerostachyum*, of about equal hardiness, should be a profitable item for neighborhood growers who could show off its beauty in their display grounds.

That beauty consists, in part, of tufts of wavy-toothed, linear leaves, which assume brilliant colors in autumn, and bright crimson flowers in spikes to eight inches in length. It grows from a tuberous rootstock, which suggests a method of propagation. In addition it grows readily from seeds and could no doubt be multiplied from cuttings of new growths in early summer, as others of its kind are.

Oenothera Acaulis

A Wisconsin reader asks about the hardiness of the dandelion-leaved evening primrose, *Oenothera acaulis*, and I am afraid it is not at all likely that it would be hardy anywhere in the state. That need not deter the gardener from enjoying it, however, or the nurseryman from profiting from its sales. Because of their inability to stand a northern winter, many evening primroses which are perennial by nature have to be used as annuals in the north. That is true of the Chilean *O. acaulis*, also known as *O. taraxacifolia* and apparently the same plant I used to call Bur-

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4 to 6 ins.	4.00	35.00
Austrian Pine		
8 to 10 ins.	5.00	45.00
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Ponderosa Pine		
8 to 10 ins.	3.50	30.00
Douglas Fir		
6 to 10 ins.	5.00	45.00
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Balsam Fir		
4 to 8 ins.	4.00	35.00
Mugho Pine, Dwarf Tyrolean , sheared, 4 ins.	5.00	45.00
Scotch Pine		
8 to 10 ins.	4.00	35.00

2-Yr. Seedlings

	Per 100	Per 1000
Colorado Blue Spruce		
2 to 4 ins.	3.00	25.00
Mugho Pine, Dwarf Tyrolean		
1 1/2 to 2 ins.	3.00	25.00
Scotch Pine, Riga		
2 to 4 ins.	2.50	20.00
Ponderosa Pine		
2 to 4 ins.	2.50	20.00
Austrian Pine		
2 to 4 ins.	3.00	25.00
Norway Spruce		
2 to 4 ins.	3.00	25.00
American Arborvitae		
2 to 4 ins.	3.00	20.00
Douglas Fir, Snowy Mountain		
2 to 4 ins.	3.00	25.00

Transplants

	Per 100	Per 1000
American Arborvitae, 5-yr.		
12 to 15 ins.	18.00	150.00
10 to 12 ins.	15.00	120.00
6 to 10 ins.	12.00	80.00

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48 to 60 ins.	60.00	500.00

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bank's America, which blooms the first year from early-sown seeds.

Some of the literature speaks of its being sprawling ("Hortus," for instances, says "prostrate branches"), something it never was in my trials, in which I had to treat it as an annual. Its satiny flowers, to three inches across, seem to float on their slender tubes above the tuft of jagged leaves, white in color at first, then changing to pink with age. The term "age" must not be taken too literally, though, because, like other primroses, the flowers are fugitive. When hardy, it should be a perennial joy to the gardener, though I suspect that it, like many of its kind, would be rather short-lived even there.

Siberian Iris Varieties

It is surprising to this observer that a group of plants possessing all the good points of the Siberian iris varieties should be absent from so many gardens where the tall bearded kinds are present in large numbers. It may be that gardeners like their colors showy, even flamboyant. That the Siberians are not, but they have most of the characters that one looks for in the perfect hardy perennial. For instance, one does not have to worry during an especially cold winter, for he knows that the Siberians will be there when spring comes, ready to add their charming contribution to the procession of flowers.

And it makes little difference where they are placed in the landscape, be it in full sun or partial shade, in near bog or dry, light soil. In addition, plant breeders have given us during recent years a beautiful array of new varieties, much improved in color, shape and size. One would expect, as a consequence, that the modern Siberians would be among the most popular of iris forms; actually, however, one can go through garden after garden of tall bearded kinds that cost the gardener as much as \$5 a rhizome and not see a single 50-cent Siberian.

I was at a loss to understand the reason for this condition until I made it a point to look for Siberians in the grounds of neighborhood growers, and then I knew they were not being shown to gardeners. If the neighborhood grower wants to add an easily grown, hardy perennial to his list, he will do well to investigate some of the named varieties of Siberian iris. He will find, among other things, that he has less competition in them than he has in the tall bearded kinds, and far less competition from over-the-fence trade.

I should recommend the following varieties as a starting stock: Blue Charm, with large standards and

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Attractive evergreen upright grower with large glossy green foliage.

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Upright (4) Semi-upright in growth. Excellent for upright specimens.

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EUONYMUS japonicus: Golden Euonymus (5)

Excellent compact grower having gold leaves with a dark green margin.

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Rich looking evergreen shrub with very glossy leaves.

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Very attractive dwarf growing shrub with small green leaves.

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round, horizontal falls of light blue;
Caesar's Brother, black-purple and
outstanding; Heavenly Blue, well
described by the name; Lady Godiva,
pinkish-lavender, perhaps a start
toward a pink Siberian; Red Emper-
or, reddish-purple with blue veins;
White Empress, a lovely white,
which could replace Snow Queen
and White Swan as the best white,
if it proves to be a good performer
over the years.

Campanula Macrorrhiza

Superficial observation would lead
one to pass by Campanula macror-
rhiza as just another C. rotundifolia.
That judgment would not be far
wrong, either, for the plant is of the
rotundifolia group, though it differs
not a little from the type, especially
in its large (hence the specific name),
woody rootstock. Many synonyms
have been introduced in this group
of bellflowers, and C. macrorrhiza
is variously offered as C. sabatia,
C. jurjurenensis, C. granatensis, C.
wilkommi and C. crassipes.

Whatever the name may be, it is a
good garden plant, producing a suc-
cession of erect, dark blue harebells,
usually one to each 3 to 5-inch stem,
from June until October. It does well
in any good garden soil, in sun or
part shade, but should have water
in dry weather to induce the contin-
uous flowering mentioned.

HOLD LANDSCAPE CLASSES

Milwaukee area nurserymen and
landscape architects, in a campaign
to impress the public with the idea
that persons who deal with profes-
sionals in the field buy beauty, not
just a quantity of plant material,
are conducting the sixth annual se-
ries of landscape classes, under the
direction of Eugene B. Stiefvater,
assistant Milwaukee county agricul-
tural agent.

Since the inception of the series,
sponsored by the Wisconsin Associ-
ation of Landscape Architects and
the Milwaukee county park commis-
sion, the attendance has grown to
such an extent that it is necessary to
hold the classes at three locations in
order to accommodate all who wish
to participate.

Speakers and subjects for the first
evening's class are Ralph Petranek,
manager, Brown Deer Nurseries,
trees; John Orton, landscape archi-
tect, Hawks Nursery Co., shrubs,
and Robert Greaves, landscape
architect, Greaves-Simotti Associ-
ates, walks, fences, steps, pools, ter-
races and garden lighting.

In the second class of the series,
the subject of design is discussed by
Thomas Lied, landscape designer,

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	Per 100	Per 1000
1-yr., bed, XX	\$25.00	\$200.00

GILSON GARDENS
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Lied's Nursery Co., and a representative of the county landscape architect's office.

The final class in the series of three is conducted by John Voight, Whitnall park superintendent, whose subject is planting and maintenance; Silas P. Graham, a Milwaukee sewerage commission agronomist, lawns, and S. S. Mathisen, Milwaukee county agricultural agent, soils and fertilizers.

Lists of plant material useful in this area, pamphlets and a bibliography of books on landscaping and gardening are distributed to the audience. A great many color slides are used in the classes, to acquaint people with plant varieties and to show what can be done in the way of landscaping.

D. A. K.

NOTES IOWA CHANGES

Changes in the Iowa nursery industry during the past 74 years were noted by Samuel D. Sayers, 90, operator of Sayers Nursery, Des Moines, in a feature article appearing recently in the Des Moines Tribune. Mr. Sayers, who entered the nursery business at the age of 16, was quoted as saying that the greatest change in the state's trade is that many large retail nurseries in Iowa now grow very little of their own stock, but buy it from outside the state, heel it in and dispose of it quickly.

Recalling that his nursery at one time grew 150,000 fruit trees a year, Mr. Sayers remarked that now far fewer people than formerly grow fruit trees in their yards. He attributes this to the fact that homeowners are unwilling to give trees the amount of care necessary for successful home fruit growing.

Mr. Sayers began his nursery career in 1883, working for "Captain" C. L. Watrous, pioneer Des Moines nurseryman, and remembers hauling nursery stock through the city in a mule-drawn wooden wagon, which was sometimes mired hub-deep in the mud. A few years later he went to Nebraska and homesteaded on 600 acres of land near North Platte. Returning to Des Moines in 1892, Mr. Sayers worked for "Captain" Watrous again for about four years and later became field superintendent for the former Des Moines Nursery. He then bought approximately 100 acres of land at Des Moines and started the Sayers Nursery in 1902.

WARREN KEPPLER is starting Keppler & Sons Nursery, a garden center and nursery operation, at R. D. No. 1, Johnson City, N. Y.

1958 WHOLESALE STRAWBERRY PRICES !

PREPAID PACK-OUT PRICES

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Gem	\$1.10	\$1.85	\$3.25	\$6.25
Superfection	1.10	1.85	3.25	6.25
Streamliner	1.25	1.85	3.25	6.25
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JUNE BEARING (virus-free planting stock)

	1.00	1.40	2.20	4.50
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Wis. 214	1.00	1.40	2.20	4.75
Jumbo	1.25	2.00	3.25	7.00

Pack-out prices quoted above are what each order will cost you shipped promptly and prepaid to your customers under your own tags, or we furnish tags without our name appearing on them. Pack-out shipments are guaranteed to satisfy your customers.

5 per cent off on above direct pack-out strawberry prices for cash with order or 30 days' payment.

Strawberry plants packed for store and lot sales in attractive packages of 25 plants. Prices are 75¢ each carton for Everbearing, except 20th Century, \$1.00, and Red Rich, \$2.50. Junebearing kinds are 50¢ per carton, all F.O.B.

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5-ft. Aluminum Pyramid Gardens \$4.95	5-ft. Pyramid and 50 Superfection
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	Per 1000	Per 10,000	Per 50,000
Box Elder, 18 to 24 ins., 7/32-in. cal. and up....	\$23.00	\$220.00	\$1,050.00
Buckthorn, davurica, 2 to 3 ft.....	34.00	320.00	1,500.00
Elm, Chinese, 18 to 24 ins., 3/16-in. cal. and up	23.00	220.00	1,050.00

Truckload lots will be delivered within the state of North Dakota and adjoining states without charge. All other orders are F.O.B. Oakes, N. D., packing at cost.

OAKES NURSERY OAKES, NORTH DAKOTA

Florida Nursery Sponsors Adult Landscape Course

To give a maximum amount of information in the home-planting field to persons in its area and develop further interest in home gardening, the Florida Nursery & Landscape Co., Leesburg, Fla., planned and developed, with some outside aid, a course in landscape gardening which it offered with marked success through the cooperation of the adult education department of the Lake county (Fla.) school board. Practical instruction in this subject for the public has not been frequently available, although arboretums, botanical gardens and university extension departments have planned some useful courses for homeowners.

The experience of the Florida Nursery & Landscape Co., operated by G. W. Pringle, a past president of the Florida Nurserymen and Growers Association, suggests a new line of promotion and education by the trade. Details of management and recommendations for changes are also useful. The Florida Public Relations Association recently named the firm's program the outstanding one of its type in the commercial field in the state.

Scheduled from February into the month of May, the course was held weekly on Friday evenings, from 7:30 to 9:30 o'clock, with a 15-minute break. The group met in the cafeteria of the local high school. Each person registering paid a \$2 fee to the county. In return, the county paid the teacher (\$2.16 per hour) and mimeographed the weekly outlines used by the students.

Instruction Staff

The nursery planned the course, obtained the teachers and handled all other arrangements through its office. Effort was made to determine the most useful information that could be given. While one teacher was certified from the nursery staff, an expert in the field was selected to handle each subject in the course. Cooperation from the agricultural extension division of the University of Florida and from the nursery personnel was important. Two county agents and 16 nurserymen and nursery employees assisted in the program. Personnel of the sponsoring nursery prepared demonstration material, and most persons on the staff, with their families, took the course and benefited from the expert advice presented.

Despite the length of the course, attendance held up well. Out of an enrollment of 134, the average attendance was 90 to 100 persons. More than 80 received certificates for having attended 12 or more classes. Some attended all 16 classes.

Because of the enthusiasm shown by registrants and the size of the group, the class was commended by the educational leaders as one of the best adult education efforts in the state. The project received local newspaper publicity, and the magazine of the state education department featured the program in an article. The landscape course was the first one presented for adults through the school department for which individual outlines were prepared. Such a procedure has now been adopted as a requirement for all classes. Gaining the full cooperation of the educational division is, of course, a requisite for this plan for any nurseryman or trade group.

Demonstrations were prepared to add interest and make the course

more practical. It proved much easier, it was said, to show how to sow seeds and make cuttings and grafts than to tell how effectively. Insect pests were brought in for identification during one class period. House plants were shown at another time.

Following are the topics of the various class sessions in the order in which they were presented:

1. Basic Principles of Landscaping
2. Developing the Landscape Plan
3. Planting Around the Building
4. Ornamental Plants and Their Use
5. Florida Lawn Problems
6. Maintenance of Landscape Plantings
7. Maintenance and Care of Ornamentals
8. Propagation of Flowers and Ornamentals
9. Common Insect Pests and Their Control
10. Common Diseases of Ornamentals and Control
11. Care and Maintenance of Shade Trees
12. Flower Gardening, Including Roses and Annual Plants
13. House Plants and Their Care
14. The Home Vegetable Garden
15. Fruit Trees and Dooryard Citrus
16. Panel Discussion

Two Courses Suggested

Experience with the first course led to a belief that it might be desirable to make two courses of the material rather than the single long

SMALL FRUIT PLANTS

Grapes

Currants

Berry Plants

Write for Wholesale Price List

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Peach

Hydrangea P. G.

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Ornamental Trees

Grapevines, 1-yr. and 2-yr.

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INTRODUCING EUONYMUS PAULI

Bush type, holds good green color all winter, shears well. We have grown this plant 5 years. We think it is the best. Samples at cost.

Rooted cuttings, ready now, \$10.00 per 100; \$8.00 per 1000.

1-yr., field-grown, well-br., \$25.00 per 100.

PAUL'S NURSERY

R. D. 3

Shelby, O.

ROSES

None better grown. Conscientiously dug and graded. Bare root, wrapped or potted. Also lining-out and finished nursery stock. Reliable wholesale service since 1921.

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Bed stock—Liners
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one described. One course, for instance, could be presented on plants and their culture, including propagation, fertilizing, insect and fungus control, pruning, spraying, etc., while the other classes would cover landscape design and how to use plants. These could be made courses for fall and spring, instead of a continuous series.

In the plan used, the first three classes were devoted to landscaping topics, each presented by a different landscape architect from the staff of the Florida Nursery & Landscape Co. Mr. Pringle led the fourth discussion, "Ornamental Plants and Their Use," and also the 11th lecture, "Care and Maintenance of Shade Trees." Lectures 8, 12 and 15 were also given by members of the nursery staff. Changing the teachers not only added variety to the course, but cut down on the preparatory work for each.

Dr. Gene Nutter, of the University of Florida, Gainesville, talked on lawn problems; Dr. T. J. Sheehan, of the university extension staff, and Dr. E. W. McElwee, of the agricultural extension service, spoke on maintenance work, and Dr. James Tamman, of the state plant board, talked on plant diseases. All instructors took part in the final session.

Outlines of class discussions, mentioned previously, varied in length from one to several typed pages and not only facilitated the instruction, but provided a permanent collection of up-to-date reference material after the course. For some lectures special sketches of planting plans were prepared in advance for observation by the class members. In other cases, drawings were made on a blackboard during the class sessions.

Reference Material

Reference material was provided with the outlines by most of the speakers. In connection with the third lecture, on home planting, the class members received a 32-page reprint of an article on home grounds planning originally published in the House Beautiful magazine. Other materials distributed at class periods included a chart of lawn grasses for Florida, mimeographed notes on the new insecticides, a chart for use of insecticides, on ornamentals, diagrams of methods used to protect trees in cases of grade change, an extensive planting schedule for several classes of plants and a copy of a Florida seed firm's catalog for reference on materials.

Visual aids were found effective. The film of the American Associa-

SPRING, 1958

A few items in quantity.

Juniper, Pfitzer, 12 to 15 ins., 15 to 18 ins., 18 to 24 ins., 2 to 2 1/2 ft.

Other Junipers in variety.

Dogwood White, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

Dogwood, Pink, 3 to 4 ft., 4 to 5 ft.

Crab Apple, Hops and Eleyi, 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

Crab Apple, Bechtel's Double-Flowering, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft., 5 to 6 ft.

Elm, Chinese, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal., 2-in. cal., 2 1/2-in. cal.

These Elms have unusually straight stems.

Maple, Norway, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal., 2-in. cal., 2 1/2-in. cal.

Maple, rubrum, 1 1/4-in. cal., 1 1/2-in. cal., 2-in. cal., 2 1/2-in. cal.

Maple, schwedleri, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal.

Maple, Soft, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal.

Locust, Thornless, 6 to 8 ft., 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal.

Oak, Pin, 1 1/4-in. cal., 2-in. cal.

Redbud, 3 to 4 ft., 4 to 5 ft.

Thorn, cordata, 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.

Thorn, crugalli, 3 to 4 ft., 4 to 5 ft.

Cornus paniculata, 3 to 4 ft., 4 to 5 ft.

Cotoneaster divaricata, 2 to 3 ft., 3 to 4 ft.

Privet, Amur North, 3-yr., heavy, 12 to 18 ins., 18 to 24 ins., 2 to 3 ft.

Privet, ibolium, 3 to 4 ft., 4 to 5 ft.

Purple Fringe, 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

Spiraea vanhouttei, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.

Viburnum dentatum, 3 to 4 ft., 4 to 5 ft.

Weigela rosea, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.

Forsythia Spring Glory, 3 to 4 ft., 4 to 5 ft.

Forsythia spectabilis, 4 to 5 ft., 5 to 6 ft.

Philadelphus coronarius, 3 to 4 ft., 4 to 5 ft.

Apricots, heavy, XX

Apple, 1-yr., 4 to 5 ft., 5 to 6 ft.

Apple, 2-yr., 11/16-in. cal. and XX

Cherry, Montmorency, 2-yr., XXX, XX, 11/16-in. cal.

Plum and Pear, 2-yr., XX, 11/16-in. cal.

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350 Acres Established 1875

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	Per 100	Per 1000	Per 1000 in 10,000 lots
SCOTCH PINE (French Green) (Pinus sylvestris)			
2-yr., S. (2-0), 2 to 4 ins.	\$3.75	\$12.00	\$10.00
2-yr., S. (2-0), 2 to 6 ins.	4.00	16.00	14.50
2-yr., S. (2-0), 3 to 7 ins.	5.50	20.00	18.00
AUSTRIAN PINE (Pinus nigra)			
2-yr., S. (2-0), 2 to 4 ins.	3.75	12.00	10.00
2-yr., S. (2-0), 2 to 6 ins.	4.00	16.00	14.50
2-yr., S. (2-0), 3 to 7 ins.	5.50	20.00	18.00
WHITE SPRUCE (Picea glauca)			
2-yr., S. (2-0), 2 to 6 ins.	4.50	20.00	18.00
3-yr., S. (3-0), 4 to 8 ins.	6.50	30.00	27.50
3-yr., S. (3-0), 6 to 10 ins.	9.00	40.00	37.50
NORWAY SPRUCE (Picea excelsa)			
2-yr., S. (2-0), 2 to 6 ins.	5.50	20.00	18.00

TERMS: Cash with order please, or 25% deposit, balance before shipment. All stock Michigan state-inspected and certified to be free from disease and insects.

All stock graded according to American Association of Nurserymen standards. All seedlings at 100 rate quotations will be shipped postpaid. 1000 and 5000 lots will be shipped shipping charges collect. No packing charges. Write for quotations on lots of 50,000 or more.

This list cancels all previous lists. (S. indicates seedling.)

Spring shipping season about March 15 through June 30.

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VAN WERT, OHIO • "The Peony City"

BROAD-LEAVED EVERGREENS

Choice landscape material
at attractive prices.

Buxus sempervirens, 12 to 16 ins. to 2 to 2½ ft.
Elaeagnus fruitlandi, 1½ to 2 ft. to 4 to 5 ft.
Euonymus kiautschowicus, 1½ to 2 ft. to 4 to 5 ft.
Ilex cuneata, 3 to 4 ft. to 5 to 6 ft.
Ilex convexa (bullata), 12 to 16 ins. to 18 to 24 ins.
Ilex rotundifolia, 15 to 18 ins. to 2 to 2½ ft.
Ilex opaca howardi, 2 to 3 ft. to 4 to 5 ft.
Ilex vomitoria, 2 to 3 ft.
Jasminum floridum, 1½ to 2 ft. to 3 to 4 ft.
Ligustrum japonicum, 2 to 3 ft. to 4 to 5 ft.
Ligustrum lucidum, 1½ to 2 ft. to 2½ to 3 ft.
Ligustrum lucidum repandens, 1½ to 2 ft. to 2½ to 3 ft.
Mahonia japonica bealei, 12 to 18 ins. to 2 to 2½ ft.
Nandina domestica, 15 to 18 ins. to 2 to 2½ ft.
Osmanthus fortunei, 1½ to 2 ft. to 2 to 2½ ft.
Osmanthus ilicifolius, 1½ to 2 ft. to 2 to 2½ ft.

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Box 491 HICKORY, N. C.
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Broad-leaved Coniferous Evergreens

Write for complete price list.

T.G. OWEN & SON, INC.
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PFITZER LINERS

Pfitzer Juniper, 2-yr.,
field-grown,
\$250.00 per 1000

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Roses
Finished and Liners
Also Dependable Nursery Supplies

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tion of Nurserymen, "Landscape for Living," was shown during the second lecture. The California Spray-Chemical Corp., Richmond, Calif., supplied several colored motion pictures, besides making a research entomologist available for a lecture. "How to Grow Roses" was another film show. The film "Dooryard Citrus Growing" was exhibited in connection with the discussion on fruit trees. The state agricultural extension department supplied colored slides showing plants, which were used with some of the nursery's own slides during the lectures on general planting and on house plants. Ample opportunity for class members' questions was given at the conclusion of the sessions. Students also had some participation opportunities. At the end of the second lecture, for example, a class exercise was planned to develop a given piece of property, and a solution was worked out on a blackboard. A practical work sheet to inventory family landscape needs was given at this time.

A dramatic demonstration conducted in connection with the course was the complete landscaping of a home in a Leesburg subdivision, the work being carried out in one day by the Florida Nursery & Landscape Co. This project, which was reported in this magazine at the time of its performance, was an event that drew considerable publicity locally and attracted a crowd of interested observers when the work was being done. A leaflet picturing the plan and describing the considerations back of the planting for the project was a part of the course materials.

NEW YORK HEARING

[Continued from page 8]

public should be advised of the plants' previous use. However, it is his belief that the word "nondeceptively" should be eliminated, in addition to the last line of the paragraph. Perhaps, he said, the word "replaced" can be used instead of "discarded."

Everett Conklin, in requesting the same eliminations from the paragraph as Mr. Nichols, said that there is some mistaken idea that the S. A. F. is opposing its sister organization, the A. A. N. That is absolutely untrue, he added, because although a distinction is made between the greenhouse industry and the nursery industry there is some overlapping. Greenhouse-grown roses have a definite place in the consumer market, he said, and average in price about three for \$1. He admitted that such

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ORIENTAL HOLLIES

Popular varieties, such as *Ilex burfordi*, *I. cornuta femina*, *I. hetzi* and *I. rotundifolia*. Write for descriptive wholesale price list.

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LILACS FOR AMERICA, by Lilac Survey Committee. 30 species, 800 varieties. 48 p. \$1.00 postpaid. American Nurseryman Chicago 4, Ill.

plants are not so good as 2-year field-grown plants, but the cheaper plants are satisfactory and the purchaser is introduced to rose culture and in time may become an active customer for the field-grown stock. It is his opinion that greenhouse-grown plants do not interfere with the sale of field-grown plants, because the price at which they are offered appeals to a definite type of customer who, he believes, limits, if any, his purchase of field-grown roses because of price.

Flexibility in Rule Asked

William Harris, president of Goldfarb's and Arcadian Gardens, reported his firm's practice in the use and sale of pulled plants. Plants are kept in production three years, he stated, and then pulled and offered for sale through the firm's retail outlets. It was his suggestion that the wording in the rule be flexible enough to be applicable for specific individual situations, which would vary.

T. H. Everett, of the Bronx Botanical Gardens, New York, related his experiences with pulled plants which showed that they did not have so high a flower production as field-grown plants. With good care, adequate plants can be grown, he said, but what is really being sold at present is "secondhand" or "used" plants.

Mrs. Lola Romano, of Romano's Greenhouses, New Providence, N. J., described her firm's operation in the packaging and sale of pulled plants to mass market outlets. It is her opinion that there is a definite place in the market picture for both types of plants and that she can package and sell only nonpatented varieties. Her firm maintains a high standard of quality, she explained, with the growers and sources of supply picked carefully to insure maximum quality. If plants at mass market outlets are not sold within 15 days, they are returned to the source, where they are usually destroyed. It is becoming increasingly difficult to find sources of supply, she said, because more growers are keeping their plants benched for more than three years.

Case for Rule Retention

After the testimonies against the last paragraph of rule 5, testimony for its retention dominated the remainder of the afternoon session. Eugene M. Potts, consulting rosarian for the American Rose Society, stated that few people know exactly what a bench rose is and many amateur gardeners he has spoken to think that such a plant is superior to a field-grown one. He also recommended

LOOK -
what you
can get for
a BUCK -
\$1.00



Baker's Arborvitae

All first-class stock, B&B—NORTH ALABAMA GROWN

	Each
2500 Berckmans Arborvitae, 12 to 18 ins.	\$1.00
6000 Baker's Arborvitae, 2½ to 3½ ft.	1.00
1500 Juniperus hetzi glauca, 15 to 18 ins.	1.00
500 Greek Juniper, 15 to 18 ins.	1.00

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NATIVE EVERGREENS

Rhododendron maximum,

Kalmia latifolia, Ilex opaca,

Tsuga canadensis

	Per 100	Per 1000
3 to 6 ins., S.	\$3.00	\$20.00
6 to 9 ins., S.	4.00	30.00
9 to 12 ins., S.	6.00	50.00
12 to 18 ins., S.	8.00	70.00

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Specimen Evergreens

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Azaleas, Ilex
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Lining-out and con-
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BALSAM SEEDLINGS (Abies fraseri)
Collected, Compact

	Per 1000
6 to 9 ins.....	\$ 80.00
6 to 15 ins.....	100.00
9 to 15 ins.....	120.00

The famous Balsam Christmas trees are grown from these seedlings.

Beautiful color and delightful fragrance.

CORNUS FLORIDA and OXYDENDRUM ARBOREUM

Single—Double—Multiple-Stemmed (Collected)

Excellent Stock—All B&B

5 to 6 ft., \$3.00; 7 to 8 ft., \$5.50;
5 to 7 ft., \$4.00; 8 to 9 ft., \$6.50;
9 to 12 ft., \$8.50.

Prices F.O.B. Pineola, N. C.

On our usual stock of Rhododendron, Azaleas, Leucothoe, Hemlock and other native plants, we are sold out for spring, 1958, but invite inquiry for fall, 1958.



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PINK FLOWERING DOGWOOD

CORNUS FLORIDA RUBRA

	2-Yr. Well-Br.	3 and 4-Yr. Heavy-Br.
3 to 4 ft.....	\$1.50 each	\$2.00 each
4 to 5 ft.....	2.50 each	4.00 each
5 to 6 ft.....	3.50 each	5.00 each
6 to 7 ft.....	6.00 each	7.50 each

Dogwoods — B&B — 50¢ extra per tree



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that the field-grown culls be labeled as such. Dr. Cynthia Westcott, representing the American Rose Society, urged the retention of rule 5 as it now stands, as did Charles Webster, president of the Horticultural Society of New York. Dr. Westcott claimed that she would rather pay more for cut roses than have bench roses on the market and sold to beginning gardeners. If this can be done, she added, perhaps the increased revenue from the sale of cut roses will enable commercial growers to discard their pulled plants instead of offering them for sale. Dr. Westcott introduced two members of the North Jersey Rose Society who were also in favor of retaining rule 5 as it now stands.

Robert Drumm, of the division of plant industry for New York state, related his experiences with diseased plants in commercial production during 1957, which were pulled and inspected by him before they could be offered for sale. Sidney Hutton, of the Conard-Pyle Co., West Grove, Pa., reported that discards of field-grown roses because of disease were under 5 per cent.

John Kelly, secretary-treasurer of Kelly Bros. Nursery, Dansville, N. Y., said that the average person cannot differentiate plant materials by looking at them, and that there is lots of room for deception. The majority of varieties used for greenhouse production are not adaptable for outdoor gardens, and if the plants are as good as claimed there should be no fear of using the term "discarded" on the label. By and large, he added, bench plants are sold to consumers who have no recourse if the plants fail to grow, and those growers who do sell bench plants direct are the exception rather than the rule.

Concluding Testimony

At the conclusion of the witnesses' testimony, Dr. White summed up the nurserymen's case for retention of the rule as it stands. In addition, letters were read into the record by James Gurney, executive secretary of the American Rose Society, and George Avery, of the Brooklyn Botanical Garden.

Dr. White stated that the A. A. N. recognizes just three grades of field-grown roses, Nos. 1, 1½ and 2. Anything below No. 2 is considered a cull, and he is just as much opposed to the sale of culls as Mr. Potts, a previous witness. Many times in testimony, both here and at Chicago, he said the last paragraph of rule 5 has been quoted incompletely. The last three words "... in such production," have been consistently omitted. Irrespective of the reason for replace-

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- SMALL FRUITS — Grapes and Berries
- ORNAMENTAL and SHADE TREES
- FLOWERING SHRUBS
- EVERGREENS — Broadleaf and Conifers
- California Grown ROSES

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ment, he said, it has not been denied that the plants have been "discarded after having served their usefulness" in such production, namely in commercial greenhouse production. The production of roses under glass, under artificial and controlled conditions, is irrelevant to the problems as to how these plants react to ordinary garden conditions. The issue, he continued, is simply whether or not the purchasing public is entitled to a complete and nondeceptive disclosure with specific regard to bench roses.

Don Rowe, executive secretary for Roses, Inc., concluded the session with a brief discussion on semantics, especially the connotations conveyed by the word "discarded." He suggested a pre-testing of the rule "copy," so that the final wording will not be offensive to the sale of bench roses in the public's mind.

FITZPATRICK ADVANCES

James B. Fitzpatrick, who has been vice-president and general manager of the Texas Nursery Co., Sherman, Tex., for the past seven years, was elected president of the company at a recent meeting of the directors. He will also continue as general manager of the 86-year-old Texas firm, with which he has been associated for 40 years. Stockholders' and directors' meetings in February completed details of the reorganization that was begun after the death December 19 of C. C. Mayhew, founder and president of the pioneer firm of growers.

Mr. Fitzpatrick, a nephew of the late Mr. Mayhew, is well known in the industry. He has been active in the American Association of Nurserymen for many years and is a past president of the Texas Association of Nurserymen. Also on the new board of directors are Mr. Fitzpatrick's sister, Mrs. Bolton Head, Sherman, and his cousin, Mrs. Joseph Tomlin, Dallas. Other directors are L. S. Omohundro and C. H. Gillespie, both of Sherman.

PORTER-WALTON CO. announces its new address, 522 South Third street, west, Salt Lake City 10, Utah. The firm's previous address was 42 West First street, south, at the same city.

CHANGE of name and address is announced for the firm formerly called French Creek Nurseries, which has moved from 35785 Detroit road, Avon, O., to 3875 Center road, Avon, and is now known as Homer's Nursery.

EVERGREENS

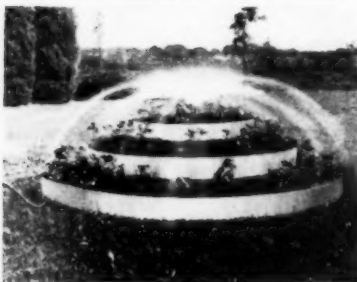
Offered in truck or carload lots.
No boxing.

	Each 10 to 50	Each 50 and up
Cedrus deodara		
2 to 2½ ft.	\$2.00	...
2½ to 3 ft.	2.50	...
3 to 4 ft.	3.50	...
4 to 5 ft.	4.75	...
5 to 6 ft.	6.25	...
Fir—Balsam and Douglas		
2 to 2½ ft.	2.50	...
2½ to 3 ft.	3.00	...
3 to 4 ft.	4.25	...
4 to 5 ft.	5.00	...
5 to 6 ft.	6.50	...
Hemlock, Canadian		
18 to 24 ins.	2.25	\$2.10
2 to 2½ ft.	2.75	2.50
2½ to 3 ft.	3.50	3.25
3 to 3½ ft.	4.50	4.25
3½ to 4 ft.	5.50	5.00
Pine, Austrian		
18 to 24 ins.	2.75	...
2 to 3 ft.	3.50	...
3 to 4 ft.	4.75	...
Pine, Oriental Red		
18 to 24 ins.	2.75	...
2 to 3 ft.	3.50	...
Pine, Scotch		
2 to 3 ft.	3.00	2.75
3 to 4 ft.	4.00	3.75
4 to 5 ft.	5.50	5.00
5 to 6 ft.	7.00	6.50
Pine, Slash		
2-gal. containers		
2½ to 3 ft.	2.50	...
3 to 3½ ft.	3.00	...
Pine, White		
18 to 24 ins.	2.25	2.10
2 to 3 ft.	3.00	2.75
3 to 4 ft.	4.00	3.75
4 to 5 ft.	5.50	5.00
5 to 6 ft.	7.00	6.50
6 to 7 ft.	8.50	8.00
Spruce, Black Hills		
2 to 2½ ft.	3.00	...
2½ to 3 ft.	3.50	...
3 to 4 ft.	4.50	...
Spruce, Canadian Blue (Picea canadensis)		
2 to 2½ ft.	3.00	2.75
2½ to 3 ft.	3.50	3.25
3 to 4 ft.	4.50	4.25
Spruce, Norway		
15 to 18 ins.	1.40	1.25
18 to 24 ins.	2.00	1.75
2 to 2½ ft.	2.50	2.25
2½ to 3 ft.	3.00	2.75
3 to 4 ft.	3.50	3.00
Taxus hatfieldi		
15 to 18 ins.	3.25	...
18 to 24 ins.	4.00	...
2 to 2½ ft.	5.25	...
Taxus hickoi		
15 to 18 ins.	3.25	...
18 to 24 ins.	4.00	...
2 to 2½ ft.	5.25	...
Taxus cuspidata		
15 to 18 ins.	3.25	...
18 to 24 ins.	4.00	...
2 to 2½ ft.	5.25	...
English Laurel		
18 to 24 ins.	2.25	...
2 to 2½ ft.	2.75	...
2½ to 3 ft.	3.25	...
Euonymus patens		
15 to 18 ins.	1.25	1.10
18 to 24 ins.	1.60	1.50
2 to 2½ ft.	2.00	1.75
2½ to 3 ft.	2.50	2.25
3 to 4 ft.	3.50	3.25
Hex convexa		
12 to 15 ins.	2.00	1.75
15 to 18 ins.	2.50	2.25
Hex rotundifolia		
12 to 15 ins.	1.60	1.50
15 to 18 ins.	2.25	2.10
18 to 24 ins.	3.00	...
Ligustrum lucidum		
15 to 18 ins.	1.25	...
18 to 24 ins.	1.75	...
2 to 2½ ft.	2.25	...
Magnolia grandiflora		
18 to 24 ins.	2.00	...
2 to 3 ft.	3.25	3.00
3 to 4 ft.	4.00	3.75

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Letters from Readers

BLOOMS HEUCHERAS

As originator of the Bressingham heucheras, I believe a few notes might be of interest to your readers, following up C. W. Wood's remarks in the issue of December 1. I must say that several varieties are already in cultivation. The first appeared as long ago as 1932 under the name of Blooms variety. This was a cross between the small-flowered brizoides type and the larger, though shorter-stemmed and less free sanguinea. This was followed by others in the prewar period, varying in type, but all freer and more brightly colored than the older sorts. Freedom, Oakington Jewel, Snowflakes, Coral Cloud, Gaiety, Apple Blossom, Jubilee and Mary Rose all appeared before 1939 and are now widely grown in Britain. Since the war, even finer varieties have been sent out by my firm, including Lady Romney, Captivation, Ibis, Pearl Drops, Rhapsody, Scintillation, Red Spangles and Sparkler. Together, these represent the best selections from thousands of seedlings and have been tested for the necessary garden qualities.

One reason why these named varieties are not better known in the United States is shipping difficulties from Britain. Because plants have all soil washed off, undergo a journey lasting two weeks or more, and are subjected to stringent health measures at Hoboken, N. J., there is loss of material. Considerable quantities of our named heucheras have been shipped to the U. S. A. over the past 10 years, but our trade customers have now found that air freight is worth the extra cost. They introduced the Bressingham strain of seedlings largely because of shipping difficulties experienced in recent years. But while these are vigorous, free and very colorful, as Mr. Wood says, the named varieties are needed for effective color planning. It is hoped, since a way has been found to overcome shipping snags, that these varieties will become available in other countries in the not too distant future.

It might interest your readers who are keen on perennials to learn that a hardy plant society has been formed over here. Although a few members from the U. S. A. have already been enrolled, it may well be that others would like to take advantage of it. Its objects are to promote wider interest generally in perennials, in cultivation and breeding, and especially in keeping in cultiva-

TAXUS LINERS

	Each	Each
	Per 100	Per 1000
HATFIELD		
8 to 12 ins., 3-yr., bedded	30¢	25¢
CUSPIDATA		
10 to 15 ins., 3-yr., bedded	30¢	25¢
10 to 15 ins., 3-yr., 2 1/2-in. pots	32 1/2¢	27 1/2¢
INTERMEDIA		
8 to 12 ins., 3-yr., bedded	30¢	25¢
8 to 12 ins., 3-yr., 2 1/2-in. pots	32 1/2¢	27 1/2¢
BROWN		
10 to 12 ins., 3-yr., bedded	30¢	25¢
10 to 12 ins., 3-yr., 2 1/2-in. pots	32 1/2¢	27 1/2¢

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- ILEX ROTUNDIFOLIA
- VIBURNUM JUDDI
- PFITZER JUNIPER

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tion many species in danger of being lost. The tendency to reduce varieties seems to be general, but the society's aims will meet with approval from all who wish to see the vast range of subjects fully and properly utilized and to foster wider cultivation of perennials generally. The quarterly bulletins are full of interesting articles, and these alone are well worth the \$2 annual subscription. The secretary is Noel J. Procter, 2-10 Tavistock street, London, W.C.2, England.

Alan Bloom

TARNISHED PLANT BUG

A one-shot spray applied to the plants and the mulch between the rows has given good control of plant bugs in strawberries. DDT is the most effective material, according to Prof. Fred G. Munding, entomologist at the New York agricultural experiment station at Geneva.

"Small, dried, more or less button-shaped berries are typical of injury caused by the false tarnished plant bug," he says. An account of tests of materials for controlling the pest in strawberries appeared in a previous issue of the station's quarterly magazine, Farm Research.

The habit of the plant bug to seek shelter from wind, rain or other undesirable conditions by crawling under litter, mulch or other ground cover is the secret of its control, explains Professor Munding. This shelter becomes a death trap for the insect when infiltrated with spray or dust toxic to the pest. Sprays should be applied before bloom to avoid injury to bees or residues on the fruit.

Sharp reduction in the percentage of injured fruit and a market increase in the volume of salable berries followed the use of all of the insecticides tried. Best results were obtained with an application of two pounds of 50 per cent wettable powder of DDT in 100 gallons of water. Lindane, parathion and malathion were less effective. Five per cent dusts of DDT and rothane applied one season gave good control.

The false tarnished plant bug lives over winter as an adult under stones, leaves and other shelter, says Professor Munding. It becomes active with rising spring temperatures and feeds on the first green vegetation that appears. As the season advances it moves from one food plant to another and is commonly found in great numbers on raspberries, blackberries and other small fruits late in the summer. There may be as many as four generations in a season.

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	Per 100	Per 1000
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T.	\$10.00	\$ 80.00
1-yr., No. 1	8.00	65.00
Indian Summer,		
Durham		
T.	10.50	85.00
1-yr., No. 1	8.50	70.00

RHUBARB

	Per 10	Per 100	Per 1000
Canada Red....	\$4.00	\$35.00	\$300.00
MacDonald	3.50	30.00	250.00

BLUEBERRIES

Jersey, Rubel,			
Rancocas			
2-yr., 9 to			
12 ins.	3.50	32.50	300.00
3-yr., 12 to			
18 ins.	5.00	47.50	450.00
4-yr., 18 to			
24 ins.	7.00	67.50	650.00
5-yr., Jersey only,	\$1.00 each.		

BLACK RASPBERRIES

Cumberland, Logan,		
Morrison, Bristol		
No. 1, tips	6.00	45.00
Blackhawk		
No. 1, tips	15.00	100.00

GRAPEVINES

Concord		
2-yr., No. 1	15.00	100.00
Niagara, Catawba,		
Fredonia		
2-yr., No. 1	16.00	120.00
Seneca, Golden		
Muscat		
2-yr., No. 1	25.00	.....

ASPARAGUS

Mary Washington		
3-yr., heavy	\$4.50	\$30.00
2-yr., No. 1	3.00	20.00
1-yr., No. 1	2.00	14.00

GOOSEBERRIES

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Cuttings50	3.00	20.00
Whole roots ..	.90	6.50	45.00

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	$\frac{9}{16}$ -in. cal.	$\frac{7}{8}$ -in. cal.	24 ins.
	40c	35c	25c
Belle of Georgia	100	350	150
Chinese Cling	100	250	175
Carman .....	...	150	200
Halehaven	500	1000	400
Elberta	500	2500	2000
J. H. Hale	300	850	600
Red Bird	100	150	150

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LOS ANGELES CHAPTER

A regular meeting of the Los Angeles chapter, California Association of Nurserymen, was held February 26 at the Kellogg campus of the California State Polytechnic College at Pomona. Members and guests were conducted on a tour of the campus before the dinner hour. There were 120 in attendance.

The meeting was called to order by President Norman Springer, Bandini Fertilizer Co., Los Angeles. Chuck Vogels, Chuck's Nursery, Covina, displayed a model of the Los Angeles chapter exhibit for the international flower show in March. American Association of Nurserymen landscape awards were presented by Mr. Springer to Charles Bogenrief, Robert Fulton Co., Long Beach; architect Warren Jones; landscape contractor Peter J. Motshagen, of the D & M Sprinkler Co., Paramount, and architect Chance Hill.

Four scholarships were presented to students from Cal Poly. The California Association of Nurserymen scholarship was presented to freshman John Cable, the Harry E. Rose-dale memorial award to sophomore Tosh Yamaguchi, Chuck's Nursery award to junior Tom Osmer and the Bandini horticultural award to senior Charles Wagner.

O. A. "Jolly" Batcheller, Cal Poly, introduced his staff and told interesting facts about the college. It ranks fifth in the nation in number of horticultural students and is expanding from 400 students two years ago to an anticipated 12,000 in 1970.

The program was presented by a panel of six students from the college, who explained many of the courses, requirements and projects of the horticultural student. This feature was followed by a question and answer period. Jennings Brewer, student, showed several plants which bloom well in the winter season.

Dick Meadows, Sec'y.

PENINSULA CHAPTER

The February meeting of the Peninsula chapter, California Association of Nurserymen, drew many bay area landscape architects and landscape contractors to witness the presentation of an American Associ-

ation of Nurserymen industrial landscaping award to Thomas D. Church, landscape architect and author, of San Francisco. Presentation of the award, which was given for Mr. Church's landscaping of the General Electric technical center, Warren, Mich., was made by Clyde Stocking, immediate past president of the A. A. N.

The scene of the event, the convention hall at Rickey's Studio Inn, Palo Alto, will also be the site of the 1958 C. A. N. convention, for which the Peninsula chapter will be the host. Elmer Merz, C. A. N. executive secretary, was present at the chapter meeting and discussed the progress of plans for the state convention.

Ralph Bernstein, Schmidt's Nursery, Palo Alto, acted as master of ceremonies for the plant display, a regular program feature. Plants exhibited by Vern James, James Rare

Plant Nursery, Aptos, and by Plant-smith, Palo Alto, won the "Plant With a Future" and the "Plant of the Month" awards, respectively. Ed Moore, manufacturer's representative, and Anthony Lopiccolo, Germain's, shared the award for displaying the equipment of the month.

Announcement was made that the March meeting would be held at Mariani's restaurant, Santa Clara, and would feature an address, "Applying the U. C. Soil System in Your Nursery Operation," by Peter Lert, of the Santa Clara county farm adviser's office.

Roy S. Dunton, Sec'y.

CENTINELA CHAPTER

A meeting of the Centinela chapter of the California Association of Nurserymen was held February 27 at Barbecue Pete's restaurant, Inglewood, with 32 members and guests present.

The meeting was called to order by President George Schmidt, Frontier Nursery, Redondo Beach, who introduced all those present, including the guest speaker, Homer Greene, southern California manager for California Spray-Chemical Corp.,



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Richmond. Speaking on current business conditions, Mr. Greene stated that there is no recession in the garden supply business in California, because of the large volume of migration into the state. He presented a color film, "Wonderful World of Bulbs," narrated by Norvell Gillespie.

Richard Oehlman, Ladera Garden Shop, Torrance, chairman of the California international flower show committee, announced that the preview of the show would include entertainment by Edgar Bergen and Charlie McCarthy. President Schmidt gave a report on the February meeting of the chapter's board of directors, and a petition to have the right-to-work law submitted to the California voters was circulated among the members in accordance with a request from the C. A. N. executive secretary, Elmer Merz.

Mr. Schmidt then read a letter from Norman Springer, president of the Los Angeles chapter, stating that the southern chapter presidents' meeting at Los Angeles had been canceled by the recent rainstorm and resulting flood.

Robert Taylor, Downey Fertilizer Co., Downey, suggested as an aid to increasing membership that small groups of chapter members hold separate dinner meetings with prospective members to discuss problems of nursery owners. Before the meeting was adjourned, R. E. Whitney, Ladera Garden Shop, chapter vice-president, announced that the March meeting would be held at the Wayfarer's restaurant, Lomita, and that all past presidents will be invited to the April meeting, which will feature a program on safety presented by Pressley Jones.

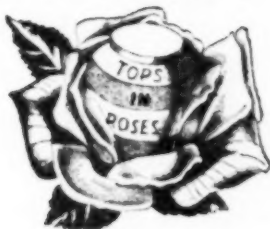
Bo Packard, Sec'y.

REDWOOD EMPIRE CHAPTER

The members of the Redwood Empire chapter, California Association of Nurserymen, gathered February 11 at the Green Mill, Cotati, for their regular meeting. An application for membership was accepted from Critchfield's Glass Mountain Tree Farm & Nursery, owned and operated by Burke and Harry Critchfield at St. Helena.

Donald Perry, Sunnyside Nursery, San Anselmo, made a motion that chapter members from Marin county enter an exhibit in the Marin art and garden show and that members from Sonoma county place an entry in the Sonoma county fair. The motion was passed by those present. Mr. Perry then presented a series of color slides taken during an autumn trip into the New

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In Season

J. B. WHALLEY

Rt. 2, Box 683 TROUTDALE, ORE.

England states and Canada. A vote of thanks was extended to Ruth Clark for the beautiful floral arrangements she has provided for the tables at recent meetings.

Hugh L. Wallace, Sec'y.

MONTEREY CHAPTER

The February meeting of the Monterey chapter of the California Association of Nurserymen was held at Deer Park tavern, Watsonville. President Louis Olave, Hollister Seed Co., Hollister, called the meeting to order.

Bruce Douglass, Douglass Nursery, Santa Cruz, reported on the proposed agenda for the state board of directors meeting scheduled for March. Refunds averaging 48.5 per cent on compensation insurance carried with the state were announced. No signatures were reported for the right to work petition, and it was decided to take no further action at this time.

William Temple, of the Mutual Life Insurance Co. of New York, spoke regarding a new group insurance program. Vernon James, James Rare Plant Nursery, presented an interesting talk on "What's New in Camellias." Beautiful blooms of new and popular varieties were shown.

The March meeting was scheduled for March 20, on the Monterey peninsula, with Mr. Plieman in charge.

SAN DIEGO MEETINGS

The February meeting of the board of directors of the San Diego chapter, California Association of Nurserymen, was called to order by President Charles E. Dibb February 13 at his home at San Diego.

A plan to place a cooperative nursery association advertisement in San Diego newspapers once a month was discussed. It was agreed that this should be the chief item of business at the chapter's dinner meeting February 27 and that George Reed, of the advertising firm of Reed, Miller & Murphy, San Diego, should be asked to be on hand to present a program for the nurserymen. Pursuant to a letter from Elmer Merz, state executive secretary, a motion was carried to appoint Earl Seeman, Seeman's Nursery, San Diego, to circulate a petition at the general meeting to have the right to work law presented to the voters in the next general election.

A motion was carried that the San Diego chapter enter the 1958 San Diego county fair. President Dibb appointed Ed Harrisburg, Germain's, San Diego, chairman and Moto Asakawa assistant chairman. They are to select the classes in which the

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chapter's exhibits will be entered. Mr. Harrisburg reported that there will be a larger space for the outdoor living class and the nursery display class and that there will be a new classification, house plants.

Reporting on insurance, Albert Harutunian, Jr., San Diego Fertilizer Co., suggested that benefits should be reviewed to see that they are adequate for present needs. It was planned that he outline this suggestion in a letter to Elmer Merz for inclusion on the agenda of the state directors' meeting in March at Monterey. The meeting was then adjourned.

Dinner Meeting

Chapter members at the subsequent dinner meeting, held February 27, gave the cooperative advertising program thorough study and then referred it to the board of directors for a decision on their suggestions. The board was to meet March 14.

George Reed offered the outline of the program, which would present monthly advertisements on the garden pages of the San Diego Union and Evening Tribune. Four advantages offered by association nurseries would be stressed: Service, first-grade merchandise, professional knowledge and monthly specials.

The next dinner meeting of the nurserymen was set for March 28.

Ada L. Perry, Sec'y.

OREGON NOTES

A full-page article in the February 23 issue of the Sunday Oregonian Home and Garden magazine urged amateurs to take advantage of the services offered by landscape gardeners as a means of doing a better job of landscaping and maintenance. James Wagner, Portland landscape gardener, was pictured demonstrating the pruning of a tree.

The 11 founders of Landscape Gardeners' Association, Inc., Oregon, were honored by the association during its 25th anniversary. The 11 are John Bacher, C. W. Easley, Karl Henrikson, Max Horand, Robert Isler, Frank Jederman, J. L. McMahon, Ernest Merki, Adolph Meyer, Oscar Rude and Charles Skinner.

Walter Marx Gardens, Boring, has added a department for perennials, which will be a cash-and-carry division of the firm. Manager of the new division is George Thompson, who has been with the firm for more than a year.

Sponsoring the annual Multnomah spring garden show are the Oregon

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Avery H. Steinmetz

PORTLAND 15, OREGON

Paul E. Van Allen

Quality Stock

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EVERGREENS
SHADE AND FLOWERING TREES
FRUIT TREE SEEDLINGS
FRUIT TREES
DECIDUOUS SHRUBS
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Look below for finest quality.
Oregon-grown shade and flow-
ering trees.

Stock available for immedi-
ate shipment.

Write for our Catalog

Ash Green, 6 to 7 ft., 5 to 6 ft.

Catalpa, 5 to 10 ft.

Chinese Elm, 10 to 12 ft., 8 to 10 ft.

Crab Apple—Flowering Variety, 4 to 5

ft., 3 to 4 ft.

Honey Locust, Imperial, 6 to 8 ft.

Locust, Black, 8 to 10 ft.

Maple, Crimson King, whips, 7 to 8 ft.

Maple, Faassen's, 2-yr., light, br., 6 to 8

ft., 6 to 6 ft., 4 to 5 ft.

Maple, Faassen's Red-leaved, br., 6 to

8 ft.

Maple, Faassen's Red-leaved, whips, all

sizes.

Maple, Norway, 10 to 12 ft., 8 to 10 ft.

Maple, Norway, whips, 5 to 6 ft., 4 to

5 ft., 3 to 4 ft., 2 to 3 ft.

Maple, Norway Pyramidal, whips, 8 to

9 ft., 7 to 8 ft.

Maple, Norway Silver, Var., 6 to 8 ft.,

5 to 6 ft.

Maple, Norway Silver, Var., whips, 7 to

8 ft., 6 to 7 ft.

Maple, Red Rubrum, 5 to 6 ft.

Maple, Schwedler, 6 to 8 ft., light, br.,

6 to 8 ft., 5 to 6 ft., 4 to 5 ft.

Maple, Schwedler, whips, 8 to 9 ft., 7 to

8 ft., 6 to 7 ft., 5 to 6 ft., 4 to 5 ft.

Maple, Silver, heavy, 10 to 12 ft., 8 to

10 ft.

Maple, Sugar, 5 to 6 ft.

Mountain Ash, European, whips, 6 to 7

ft., 4 to 5 ft., 3 to 4 ft.

Oak, Pin, 9 to 10 ft., 8 to 9 ft., 7 to 8 ft.,

6 to 7 ft.

Plum, Flowering Blireiana, whips, 4 to

5 ft., 3 to 4 ft.

Plum, Flowering Cistena, 3 to 4 ft., 2

to 3 ft.

Plum, Flowering Pissardi, 4 to 5 ft., 3

to 4 ft.

Sweet Gum, B&B, 5 to 6 ft., 4 to 5 ft.

The Homestead Nurseries

H.G. Benckhuysen. Boskoop. Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Orna-
mental Trees and Shrubs, Perennials—Quality Stock
in All Leading Varieties. Trade catalog on request.

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Boskoop, Holland

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stock since 1922.

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WHOLESALE

GENERAL NURSERY STOCK

ROSES OLD and NEW

Fine-quality, two-year plants
budded on Multiflora in over
250 varieties.



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Rt. 2, Box 96

GRESHAM, ORE.

Association of Nurserymen; Land-
scape Gardeners' Association, Inc.,
and the Oregon Florists' Club. All
three groups are busy perfecting the
plans for the event, which will be
held April 23 to 27 at the Mult-
nomah county fairgrounds, Gresham.

Both the Oregon Journal North-
west Living magazine and the Ore-
gonian Home and Garden magazine

on March 2 carried pictures show-
ing nurseryman Henry Hausch help-
ing Portland rosarians plant roses as
part of the publicity connected with
Portland's 1958 festival of roses, to
be held in June. Mr. Hausch, Rose-
way Nurseries, Beaverton, donated
roses used in a planting in Washing-
ton park's international rose test
gardens.

C. H. P.

WHITE'S SILVER KING JUNIPER (Plant Pat. No. 1186)

The White's Silver King Juniper is a new dwarf evergreen that attains a height of 18 ins. It has a beautiful silver-blue color, retaining a good color both summer and winter.

With trailing, spreading branches, well-filled with foliage, it will, with a little shearing, form a dense mass. The White's Silver King Juniper is a gem among the Juniper family combining as it does delightful qualities of color, foliage, habit of growth and hardness.

		Each	Each
Plants from 3-in. pots		\$0.75	
Plants from 1-gal. containers, sheared twice,			
10 to 12 ins.	1.25	18 to 24 ins., B&B	\$3.00
12 to 15 ins.	1.50	24 to 30 ins., B&B	3.50
15 to 18 ins.	1.75	30 to 36 ins., B&B	4.00

CARL WHITE'S NURSERY

716 S. Ninth Ave.

Walla Walla, Wash.

NEW PEACH VARIETIES

Earligold and June Gold, two new peach varieties from Armstrong Nurseries, Ontario, Calif., are announced in a 12-page color brochure of Armstrong fruit introductions sent recently to commercial growers. The two new varieties, June-budded trees of which will be available for planting during the winter of 1958-59, are the latest products of the nurseries' extensive fruit research program, which has also developed for California and Arizona growers the other peach, nectarine, apricot and plum varieties advertised in the brochure.

Earligold, termed the earliest-ripening yellow-fleshed peach yet introduced, ripens at Ontario in May, three days to one week later than the variety Springtime, and has a lower chilling requirement than Springtime or Babcock. It is described as a rounded, attractively colored semifreestone, and ease in handling and shipping are also claimed for it.

June Gold is said to ripen a week to 10 days later than Robin and to be equal in size to midseason varieties. The oval fruit is described as heavily blushed with red, with extremely firm yellow flesh that frees readily from the pit. A low chilling requirement is indicated by Armstrong's tests of the tree.

STRAWBERRY BUD ROT

During the past few years, serious losses have occurred in commercial strawberry plantings in the central and coastal growing areas of California from a bud rot that destroys all flower buds on the affected plant. Recent studies conducted at the University of California, Berkeley, and reported by Stephen Wilhelm, of the University faculty, in Plant Disease Reporter, volume 41, No. 11, have established that the rot is caused by the fungus rhizoctonia solani and that infected planting stock is a major carrier of the disease.

Terminal buds of 2-year-old plants

IT'S RICH'S FOR THOSE DISTINCTIVE TREES THAT WILL GROW!

Partial list:

Acer campestre (Hedge Maple)
Acer pseudoplatanus (Sycamore Maple)
Acer rubrum (Red Maple)
Aesculus hippocastanum (Horse Chestnut)
Catalpa speciosa (Northern Catalpa)
Cercis canadensis (Eastern Redbud)
Gleditsia triacanthos inermis (Thornless Honey Locust)
Liquidambar styraciflua (Sweet Gum)
Malus (Flowering Crab Apple), many varieties
Phellodendron amurense (Amur Cork Tree)
Populus bolleana (Bolleana Poplar)
Populus canadensis eugeni (Carolina Poplar)
Populus nigra italica (Lombardy Poplar)
Populus simoni (Simon Chinese Poplar)
Prunus (Flowering Plums) in variety
Prunus subhirtella pendula (Single Weeping Cherries)
Pyrus calleryana (Callery Ornamental Pear)
Quercus palustris (Pin Oak)
Robinia pseudoacacia (Black Locust)
Salix babylonica (Babylon Weeping Willow)
Salix blanda (Wisconsin Weeping Willow)
Sophora japonica (Pagoda Tree)
Ulmus carpinifolia Christine Buisman (Buisman Elm)
(Dutch elm disease-resistant)
Ulmus glabra (Scotch Elm)
Zelkova serrata (Japanese Zelkova)

FRUIT TREES

Still time for pooled car shipments.
Central States Representative:
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Hillsboro, Ore.

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BROAD-LEAVED EVERGREENS: *Daphne odora*, *Andromeda*, *Aucuba*, *Skimmia*, rooted cuttings, \$100.00 per 1000.
CONIFERS: Juniper, Cypress, *Arborvitae*, Yews, rooted cuttings, \$100.00 per 1000; plant bands, \$150.00 per 1000. French strain English Holly, rooted cuttings, \$20.00 per 100; Variegated Holly, rooted cuttings, \$25.00 per 100. Ground cover English Ivy, *Hypericum* and *Kinnikinnick*.

Write for special price list.

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Our combination carlots for eastern distributing points during shipping season save freight costs.

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TREE PEONIES

(Famous Yamato-Noen Strain)

Named grafted varieties in all colors.

	Each Per 10	Each Per 100	Each Per 1000
1-yr.	\$1.10	\$0.95	\$0.80
2-yr.	1.50	1.40	1.25

Higo Iris, \$23.50 per 100, 10 varieties.

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6127 Highway 99, S. Everett, Wash.

infected with the disease are killed during the winter and spring rainy seasons. Plants present a shabby appearance, because much of the terminal crown growth is also killed, and the only live growth is from spindly lateral crowns arising considerably below the soil surface. New-set plants that are carrying rhizoctonia or are set in infested soil either fail to grow or display the same symptoms noted in 2-year-plants, with the leaflets of the crown growth frequently disfigured and deeply serrated.

Analysis of infected plants in the University of California study consistently revealed the presence of the rhizoctonia solani fungus, and this was established as the cause of the disease in later inoculation tests. Although the fungus may enter plants from infested soil, scattered outbreaks in commercial fields that had been fumigated with chloropicrin before planting prompted the research workers to investigate nursery stocks as possible carriers of the fungus. A survey of the major nurseries of California confirmed the suspicion that planting stocks might be infected.

Continuing studies of control measures at the university are being directed toward soil treatments and methods of rendering infected planting stocks free from rhizoctonia.

END "MONDO GRASS" CASE

The F. T. C. has approved a consent order prohibiting Spurgeon Pickering, who trades under his own name, as Mondo Grass Co., and as Mondo Grass & Nursery Co., from advertising or selling the product unless a clear and conspicuous disclosure is made that it is not a grass.

He is also prohibited from representing or implying that the plant (1) will make a lawn unless he discloses clearly and conspicuously it will not serve all the uses of a lawn; (2) it will maintain the height to which lawns are usually mowed, without mowing; (3) it remains evergreen the year around or that it is winter-hardy or drought-tolerant regardless of the region planted, and finally (4) he must not misrepresent its ability to withstand traffic.

This agreement is for settlement purposes of a commission complaint only and does not constitute an admission by Mr. Pickering that he has violated the law.

CAMERON'S NURSERY, formerly at 9846 East Belmont avenue, Bellflower, Calif., recently moved to a new and larger site at 16910 Woodruff avenue, Bellflower.

"Over 400 Living Color Illustrations to Help You Sell"

Still available at pre-publication price

"GARDEN PLANTS IN COLOR"...

Edited by Dr. Henry T. Skinner
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Use it as a Sales Manual, a shopping guide for customers and an authentic, reliable horticultural reference book. Every tree and plant listed is illustrated in living color and identified by both botanical and common name. Beautifully bound in waterproof, heavy vinyl multiple-ring cover to withstand years of use.

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Rate: 40 cents per line, each insertion.

Minimum order, \$4.00.

Instructions for the May 1 issue must be received by Friday, April 11.

Forms for May 15 issue will close Friday, April 25.

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CASH AND CARRY ONLY, NO DELIVERY.
OVER 80,000
SIZES RANGING FROM 4 ins. to 8 ft.
(Not all sizes in all varieties.)
Lath house and field-grown.
Quality, priced right.
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1-yr., 4 to 6 ins. and 6 to 9 ins., in the following varieties:
Double Hino, Fedora, Good Times, Herbert, Hino-degiri, Hino-Crimson, H. H. Hume, Lorna, Louise Gable, Othello, Rosebud, Snow, Wil. Vuyk and Yodogawa.
First-class stock for field planting.
Hinodegiri and Snow, \$35.00 per 100.
All other varieties, \$45.00 per 100.

FLATTED SPRING LINERS
Now flatted in large flats of 50 plants each, growing on for May 1 delivery.
Double Hino, Elizabeth Gable, Fedora, Hino-Crimson, Lorna, Louise Gable, Mary Ann, Mrs. L. C. Fischer, Mrs. Addy Wery, Othello, Purple Splendor, Rosebud, Rose Greeley, Snow, Wil. Vuyk.
All, \$25.00 per 100. Ask for our new list.
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Our plants are grown in the open field, single row, sheared, compact plants.
100 rate
6 to 8 ins. B&B.....\$0.75
8 to 10 ins. B&B......90
10 to 12 ins. B&B.....1.15
12 to 15 ins. B&B.....1.40
15 to 18 ins. B&B.....1.90
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DELIVERY SPRING 1958
POT-GROWN
ATLANTA DELAWARE VAL-
CORAL BELLS LEY WHITE
FLAME FEDORA
HERBERT J. T. LOVETT
INDICA MAGNIFICA PINK PEARL
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\$14.00 per 100, \$125.00 per 1000.
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4 ins.\$0.35 each...45 plants per crate
4 to 6 ins.45 each...40 plants per crate
6 to 8 ins.75 each...30 plants per crate
8 to 10 ins.95 each...25 plants per crate
10 to 12 ins.1.25 each...18 plants per crate
Order by crate only. Approximate weight per crate 35 lbs. Lightweight, expert frost-proofed packing free. Cash with order.
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AZALEAS, 2-YR. BEDDED STOCK 100
Knaphill, hybrids, s.....\$20.00
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Knaphill, some budded.....35.00
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Rooted cuttings
Write for list.
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VA. FIELD-GROWN KURUME AZALEAS.
Thousands, in size range 4 to 6, 15 to 18.
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KURUMES, GLENN DALES, ETC.
Thousands of beautiful Hino-Crimson and other evergreen Azaleas. Dense, bushy, well-budded.
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RED-LEAVED BARBERRY
(Atropurpurea) 2-yr. seedlings.
Lining-out Per 100 Per 1000
9 to 12 ins., branched.....\$ 4.50 \$ 40.00
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(Atropurpurea) 4-yr. transplants.
Heavy stock Per 100 Per 1000
9 to 12 ins.....\$24.00 \$200.00
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(Thunbergii) 4-yr. transplants.
Heavy stock Per 100 Per 1000
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Our red Barberrry is one of the finest strains in the U. S. A.
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RED-LEAVED JAPANESE BARBERRY
Nice lining-out stock 100 1000
6 to 9 ins., 2-yr., s.....\$ 6.00 \$50.00
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GREEN-LEAVED JAPANESE BARBERRY
15 to 18 ins., 25c (spring dug).
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Since 1887, On Route 17, In Stark County,

RED-LEAVED BARBERRY
(Berberis atropurpurea)
2-yr. seedlings, 1 branch up.

Per 100 Per 1000
17,000 6 to 9 ins.\$4.50 \$35.00
33,000 9 to 12 ins.5.00 40.00

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If you have your own cold storage facilities, our bulk price list will interest you. For large quantity quotation, please write.

JUNE BEARING Per 1000
*Blackmore.....\$ 9.50
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*Armora.....12.00
*Empire.....12.00
*Fariah Perfect (plant pat. No. 1442).....12.00
*Vermilion.....12.00
*Crimson Flash.....14.00
*Paymaster (trade-mark).....14.00
*Wisconsin 214.....14.00
*Jumbo (trade-mark).....20.00
EVERBEARING
*Gem.....20.00
*Superfection.....20.00
*Streamliner.....22.00
*Twentieth Century.....22.00
*Red Rich (plant pat. No. 993).....78.00
Established retail prices on Red Rich: 12 plants, \$2.95; 25 plants, \$5.00; 50 plants, \$8.50; 100 plants, \$15.00; 250 plants, \$32.50; 500 plants, \$62.50; 1000 plants, \$120.00.
*Grown from virus-free planting stock.
JUDSON NURSERIES, INC.
Phone 1-2945 Bristol, Ind.

NEW MIDNITE BLACKBERRY
Introduced fall 1957. Fine, large berry, heavy fruiting.
Send for complete descriptive circular.

Per 100 Per 1000
1-yr., No. 1 plants.....\$12.50 \$100.00
2-yr., No. 1 plants.....17.50 150.00
LOWDEN, another Blackberry of Eldorado type, from Canada.
1-yr., No. 1 plants.....\$ 9.50 \$ 85.00
2-yr., No. 1 plants.....12.50 100.00
SCARFF'S NURSERY, INC.
New Carlisle, O.

STRAWBERRY AND RASPBERRY PLANTS
The latest and best in small fruits, including Blaze, Merrimack, Empire, Surecrop, Earldawn and 40 other varieties.
Durham and 25 Premier Everbearing Red Raspberries, Latham (mid-season), Gatineau and Madawaska (very early).
Write for free catalog and wholesale price list.
WALTER K. MORSS & SON
Bradford, Mass.

STRAWBERRY PLANTS

Illinois-grown.
Gem Everbearing \$11.00 per 1000.
ANNA NURSERY, ANNA, ILL.

ROYAL SEEDLESS BLUE GRAPE
Highest quality Grape in existence. Nearly as large as Concord, but much sweeter, harder and heavier bearing. Just as vigorous and healthy. Ripens with Moore's Early. 15 years under test. As hardy as Beta. 2-yr. No. 1, 3 for \$6.00 cash. Plants that die replaced free if reported by August 1.
SCHWAB FRUIT FARM & NURSERY
220 N. 5th St. Mankato, Minn.

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Red Raspberries, black Raspberries, Grapes, Asparagus, Rhubarb, Blueberries, Gooseberries and Horseradish. See our priced ad on page 81.
KRIEGER'S WHOLESALE NURSERY
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SCHWAB GOOSEBERRIES, large as Plums. New seedling (world's largest Gooseberry). Berries often 1½-in. in dia.; highest quality, hardy. Very productive, very sweet. 1-yr., heavy, \$4.50 per 10; 2-yr., light, \$6.00 per 10; bearing size, \$7.50 per 10. 5 per cent discount for cash or free baling. Plants that die replaced at half price.

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220 N. 5th St. Mankato, Minn.

BLACK RASPBERRY PLANTS

New Logan tips \$35.00 per 1000
Cumberland tips \$35.00 per 1000
Dundee tips \$35.00 per 1000
Bristol tips \$35.00 per 1000

C. H. BENEDICT
Grand Junction, Mich.

Strawberry plants, double inspected, northern-grown: Dunlap, Blakemore, Giant Robinson Premier, Armore, 1000, \$7.50; 5000 up, \$7.00 per 1000. Giant Gem, Streamliner, Superfection everbearing, 1000, \$15.00; 5000 up, \$14.00 per 1000. These are young, healthy, moss-packed plants, grown from virus-free stock. Guaranteed to reach you in good growing condition. Iowa Nursery, Farmington, Ia.

STRAWBERRY PLANTS, WELL-ROOTED
Double inspected, irrigated. Per 1000
Dunlap \$7.50
Blakemore 9.00
Robinson 9.00
Armored 10.00
Premier 11.00
Everbearing, Superfection and Gem 16.00
DOLLAR NURSERY, BLOOMFIELD, IA.

STRAWBERRY AND RASPBERRY PLANTS
Everbearing Superfection, \$12.00 per 1000; Streamliner, \$15.00. One crop: Robinson, Dorsett, Marshall, Northwest and Lassen, \$12.00 per 1000. Raspberry plants, Latham and Newburg, \$60.00 per 1000. All large, healthy plants, true to name.

MCKEAL BERRY NURSERY
Hamilton, Mont.

BLUEBERRIES

1-yr., 12 to 18 ins. \$5.50 \$45.00
4-yr., 18 to 24 ins. 7.00 60.00
Stanley, Atlantic, Jersey, Pemberton, Burlington, Blue-ray.

WAYNESBORO NURSERIES

Waynesboro, Va.

STATE INSPECTED STRAWBERRIES
Dunlap, \$7.50; Paymaster, \$9.50; Premier, Sparkle, Temple, Early or Red June, \$8.50 per 1000. Cash with order. F.O.B.

ROLLING ACRES, R. 4, HOLLAND, MICH.

New Hampshire Raspberries, latest red, from agricultural experimental station. Hardy, heavy bearing, commercial variety. List.

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TUBEROUS BEGONIAS

Giant double flowering CAMELLIA TYPE, 3 colors. 100 1000
1½ to 1½-in. \$ 5.50 \$ 45.00
1½ to 2-in. 8.50 75.00
2 to 2½-in. 13.50 125.00

Minimum order \$5.00.

FIMBRIATA (Carnation type), double flowering, 6 colors.

1½ to 1½-in. \$ 7.50 \$ 60.00
1½ to 2-in. 11.50 100.00
2-in. and up 15.00 140.00

Minimum order \$5.00.

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1170 Broadway New York 1, N. Y.

FANCY-LEAVED CALADIUMS
The finest of commercial named varieties. Over 75 varieties absolutely free from disease, fully upgraded.

Per 100 Per 1000
No. 3, ¾ to 1-in. \$ 7.00 \$ 60.00
No. 2, 1 to 1½-in. 12.00 110.00
No. 1, 1½ to 2½-in. 18.00 160.00
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Mammoth, 3-in. up 37.00 350.00

Minimum order \$5.00.

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The best commercial varieties.

Per 100 Per 1000
1½ to 1½-in. \$ 7.50 \$ 65.00
1½ to 2-in. 14.00 130.00
2 to 2½-in. 22.00 195.00
Mammoth, 2½-in. up 35.00 275.00

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BOXWOODS

3500 sheared specimens,
18 to 24 ins., \$3.75 each; 100 rate, \$3.00.
F.O.B. Silva, N. C.

J. A. WEDDINGTON & SON
4414 Holston Drive Knoxville, Tenn.

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SELECTED HARDY CHRYSANTEMUMS

Our divisions are selected from the most vigorous plants wintered over in our fields. These divisions are well-rooted and have been hand-trimmed, ready to plant in the field. In shipment, the roots of the plants are protected with sphagnum moss and the tops with excelsior. Each variety is carefully labeled. Begin shipment first week in May.

PRICES

100 \$ 5.00
500 22.00
1000 40.00
5000 or more, per 1000 35.00

CUT AND DECORATIVE

Alabaster, large clear white
Autumn Gold, clustered gold with red undertone
Copella, large bronze
Delight, golden yellow
Early Crimson, bright crimson
Malinda Brown, excellent lavender-pink
Moonlight, soft creamy yellow
Pathfinder, carnation-flowered yellow
Pink Opal, large peach-pink
Red Coat, brilliant red

LOW GROWING CUSHIONS

Black Velvet, very dark red
Dahlbium, wine-red
Gardenia, ivory-white
Gen. Marshall, variegated red
Grace, clear white cushion
Lomona, clustered golden-yellow
Lyric, white Daisy, A. stand-out
McArthur, yellow-orange
Orange Cushion, orange-bronze
Pigmy Gold, golden yellow Button
Pink Cushion, pink
Purple Cushion, striking purple
Santa Claus, brilliant red
Little Eskimo, white Pompon
Minimum 25 of a variety. For additional varieties, send for price list.

W. S. YOE NURSERIES

Lake St. Madison, O.

FLORETUM COLORFUL GARDEN MUMS.

Top-grade and new varieties. Bred for early blooming, frost tolerance, winter hardiness. (ROOTED) CUTTINGS, pinched, branched, outside hardened. (No potting necessary.) Ideal for planting out any time until late June. All bloom abundantly at regular time. Labeled.

5 each, 20 varieties, 100 plants \$ 10.00
5 each, 50 varieties, 250 plants 25.00
5 each, 100 varieties, 500 plants 50.00
5 each, 150 varieties, 750 plants 75.00
5 each, 200 varieties, 1000 plants 100.00
10 each, 20 varieties, 200 plants 14.00
10 each, 50 varieties, 500 plants 35.00
10 each, 100 varieties, 1000 plants 70.00
10 each, 150 varieties, 1500 plants 100.00
25 each, 20 varieties, 500 plants 30.00
25 each, 50 varieties, 1250 plants 75.00
25 each, 100 varieties, 2500 plants 125.00
PRAIRIE SOUTHWEST FLORETUM
Fall River, Kan.

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60 varieties to choose from in the cushion and also taller growing varieties. Ask for new list.

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Hardy field-grown clumps with all the runners intact, \$10.00 per 100, \$90.00 per 1000. Available after April 1. F.O.B. Zeeland, Mich. Route 2

CHRYSANTEMUMS

ESTHER READ **CHIFFON DAISIES**
Divisions, \$7.00 per 100, F.O.B. Edmonds.
Chrysanthemums, \$5.00 per 100, our choice.

SUNSET GARDENS

626 5th Ave. Edmonds, Wash.

GARDEN MUMS, ROOTED CUTTINGS

Send for our trade list
YOU WILL BE GLAD YOU DID.
FARM OF PASCHKE, NORTH EAST, PA.
Best selling variety specialists

HARDY CHRYSANTEMUM CUTTINGS

Write for a complete listing of the best varieties for every use.

FRED C. GLOECKNER & CO., INC.

15 East 26th St. New York 10, N. Y.

Newest hardy Chrysanthemums, from N. H., Minn., Ore. and Wyo. experimental stations. Small lot purchases invited. List.

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HARDY CHRYSANTEMUMS

SEND FOR NEW LIST.

NAGLE'S NURSERY, DECATUR, MICH.

GARDEN MUMS, ROOTED CUTTINGS

1958 list now ready. Many new varieties.

FAIRVIEW NURSERY, COON RAPIDS, IA.

CLEMATIS

CLEMATIS MONTANA RUBENS

(Pink Anemone Clematis)
A strong, vigorous hardy variety thriving under most adverse conditions. Blooms profusely around Memorial day.

3 to 4 ft., staked, field-grown, br., \$100.00 per 100.

C. HOOGENDOORN

Turner Rd. Newport, R. I.

DOGWOODS

PINK-FLOWERING DOGWOOD

(Cornus florida rubra)

AMERICA'S FAVORITE

FLOWERING TREE.

Each, 10 100 1000

3-YEAR
2 to 3 ft., bare-root \$2.00 \$1.75 \$1.50
3 to 4 ft., bare-root 2.50 2.00 1.75
4 to 5 ft., bare-root 3.50 3.00 2.75
5 to 6 ft., bare-root 4.50 4.00 3.75

Budded on transplanted seedlings.

Heavy, fibrous root system.

Sturdy calliper.

Heavily branched.

Properly grown.

Liberal graded.

\$9 or more at 100 rate.

300 or more at 1000 rate.

NAUGHER'S packing is free when cash, check or money order accompanies order.

You'll like NAUGHER'S quality!

NAUGHER

NURSERY

Chase, Alabama

DOGWOOD

CORNUS FLORIDA RUBRA, 2-YR.

7 to 8 ft., B&B \$7.00

6 to 7 ft., B&B 5.50

5 to 6 ft., B&B 4.50

4 to 5 ft., bare-root 3.50

3 to 4 ft., bare-root 2.00

20 to 24 ins., bare-root 1.40

24 to 30 ins., bare-root 1.10

CORNUS FLORIDA RUBRA, 1-YR.

24 to 30 ins., bare-root 1.25

18 to 24 ins., bare-root 1.00

12 to 18 ins., bare-root65

6 to 12 ins., bare-root50

CORNUS FLORIDA, WHITE-FLOWERING

Seedlings. Per 1000

4 to 6 ins. \$20.00

6 to 12 ins. 30.00

12 to 18 ins. 40.00

Flowering Crab Apples, Eley and Almey.

Assortment of Apple, Peach, Plum and Apricot trees.

IKE HAWKERSMITH NURSERY

Winchester, Tenn.

WHITE-FLOWERING DOGWOOD

Nursery-grown transplants.

Heavy calliper, well-branched. Each

3 to 4 ft., bare-root \$1.50

4 to 5 ft., B&B 1.95

4 to 5 ft., bare-root 2.90

4 to 5 ft., B&B 2.25

8 to 6 ft., B&B 3.25

6 to 7 ft., B&B 4.50

7 to 8 ft., B&B 6.00

8 to 9 ft., B&B 8.00

We really have the buds this year.

Supply limited. Phone 335.

WHERRY'S NURSERIES, St. Marys, W. Va.

PINK DOGWOOD

5000 3 to 8 ft.

Extra heavy, 5 and 6-yr.-old.

WHITE DOGWOOD

10,000 3 to 18 ft.

VOYTESHARK FARM NURSERIES

Corner of Naugatuck Ave. and

West Rutland Rd.

Milford, Conn.

Phone TR 4-3498

Field-grown Dogwood liners 100 1000

Pink Dogwood, dormant buds \$20 \$175

Double white flower, dormant buds 30 250

The latest Dogwood (Super Red) \$1

White Dogwood, seedlings, 4 to 6 ins.,

\$15.00 per 1000; 6 to 12 ins., \$25.00; 12 to

18 ins., \$40.00. Quality stock. Write for

price list. Wayne's Ornamental Nursery,

P. O. Box 120, Winchester, Tenn.

5 AND 6-YR. CORNUS FLORIDA

Heavy branched Each, 10 100

4 to 5 ft., bare-root \$2.50 \$2.00

5 to 6 ft., bare-root 3.50 3.00

6 to 8 ft., bare-root 4.00 3.50

EGYPTIAN NURSERY & LANDSCAPE CO.

Farina, Ill.

EVERGREENS, Liners

EVERGREEN GRAFTS

ON JUNIPER, virginiana,

canaerti, keteleeri, glauca

and others.

\$50.00 per 100.

KRUMMEL NURSERY

Carthage, Mo.

BERCKMANS' GOLDEN ARBORVITAE

OUR SPECIALTY

Sturdy liners, dirt-grown in full sun.

Each, 100 1000

4 to 6 ins. 8c 7½c

6 to 8 ins. 11c 10c

8 to 10 ins. 16c 15c

10 to 12 ins. 22c 20c

THE HUSH RANCH

140 Woodland Dr.

Thomasville, Ga.

James W. Lawson, Mgr.

Phone CA 6-4245

EVERGREENS, Liners—Continued

POTTED AND FIELD LINERS		
	Per 100	Per 1000
Taxus media Adams		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	\$18.00	\$170.00
2-yr., 2 1/4-in. rose pots, 8 to 12 ins.	24.00	220.00
3-yr., TT, 8 to 12 ins.	35.00	325.00
Taxus media andersoni		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
Taxus media brownii		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
2-yr., 2 1/4-in. rose pots, 6 to 10 ins.	25.00	230.00
Taxus cuspidata , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
2-yr., TT, 8 to 12 ins.	24.00	220.00
Taxus cuspidata , semi-up		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
2-yr., 2 1/4-in. rose pots, 6 to 12 ins.	25.00	230.00
3-yr., TT, 8 to 12 ins.	35.00	325.00
Taxus cusp. capitata , seedlings-grown, 3-yr., 2 1/4-in. rose pots, 3 to 6 ins.	22.50	200.00
3-yr., 2 1/4-in. rose pots, 4 to 6 ins.	27.50	250.00
3-yr., TT, 8 to 12 ins.	35.00	325.00
Taxus media Halloran		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
2-yr., TT, 6 to 12 ins.	35.00	325.00
Taxus media hatfieldi		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
Taxus media hatfieldi No. 18		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
2-yr., 2 1/4-in. rose pots, 6 to 12 ins.	25.00	230.00
Taxus media hicksii		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
2-yr., 2 1/4-in. rose pots, 6 to 12 ins.	24.00	220.00
Taxus media Kelsey		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	25.00	230.00
Taxus media thayerae		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
Taxus media wardi		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	22.50	200.00
3-yr., TT, 6 to 10 ins.	40.00	350.00
Taxus media wellerleyana		
4-yr., TT, 8 to 15 ins.	50.00	450.00
Juniperus horizontalis plumosa		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
Juniperus communis depressa		
aurea, 2-yr., TT, 6 to 12 ins.	30.00	270.00
Juniperus glauca hetzi		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
2-yr., 2 1/4-in. rose pots, 6 to 10 ins.	24.00	220.00
2-yr., TT, 8 to 12 ins.	30.00	275.00
Juniperus (Irish) fastigiata		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
Juniperus chin. pfitzeriana		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	22.50	200.00
2-yr., 2 1/4-in. rose pots, 6 to 10 ins.	26.00	240.00
2-yr., TT, 8 to 12 ins.	30.00	275.00
Thuja occ. elegantissima		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
Thuja occ. globosa		
2-yr., TT, 6 to 10 ins.	30.00	275.00
Thuja occ. Hetz's Winter Green		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
Thuja occ. pyramidalis		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
Thuja occ. wariana (Siberian)		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
2-yr., TT, 6 to 8 ins.	30.00	275.00
3-yr., TT, 8 to 12 ins.	37.50	350.00
Thuja occ. woodwardi		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
2-yr., TT, 6 to 8 ins.	30.00	275.00

Complete catalog on request.
HEASLEY'S NURSERIES
 247 Freeport Rd., Butler, Pa.

WELL ROOTED CUTTINGS

Biota bonita, 4 to 5 ins., \$70.00 per 1000.
 Biota bakeri compacta, 4 to 5 ins., \$60.00 per 1000.

JOHNSON NURSERY
 Baxter, Tenn.

EVERGREEN LINERS AND CUTTINGS POT-GROWN STOCK

	Each	100	1000
Stock from 2 1/4-in. pots			
Arborvitae, American, dark green, 1-yr., 6 to 7 ins.	\$0.26	\$0.24	
Arborvitae, pyramidalis, 1-yr., 6 to 7 ins.	.26	.24	
2-yr., 8 to 9 ins.	.30	.28	
Juniperus pfitzeriana, Armstrong's, 1-yr., 6 to 7 ins.	.26	.24	
Juniperus chinensis pfitzeriana, 1-yr., 6 to 7 ins.	.26	.24	
2-yr., pots, 6 to 9 ins.	.30	.28	
Juniperus glauca hetzi, 1-yr., 6 to 7 ins.	.26	.24	
Taxus hicksii, 2-yr., 6 to 8 ins.	.30	.28	
Taxus andersoni, 2-yr., 6 to 8 ins.	.30	.28	
Taxus cuspidata, 2-yr., 6 to 8 ins.	.30	.28	
Taxus media compacta, spreading, 2-yr., 6 to 8 ins.	.30	.28	
Euonymus alatus compactus, 1-yr., 6 to 7 ins.	.20	.18	
Korean Boxwood, 1-yr., 8 ins.	.32	.30	
Buxus sempervirens, 1-yr., 3 to 4 ins.	.20	.18	
HEAVY ROOTED CUTTINGS			
From flats, growing outside in lath house.			
Boxwood, Korean, hardy, 3 ins.	\$0.09	\$0.08	
Euonymus alatus compactus, 5 ins.	.09	.08	
Juniperus glauca hetzi, 6 ins.	.13	.12	
Arborvitae, pyramidalis, 5 to 6 ins.	.13	.12	
Taxus hicksii, 4 to 5 ins.	.13	.12	
Taxus intermedia, 5 to 6 ins.	.13	.12	
Taxus cuspidata, 5 to 6 ins.	.13	.12	
Taxus andersoni, 5 to 6 ins.	.13	.12	
Taxus media, 5 to 6 ins.	.13	.12	
Taxus hatfieldi, 4 to 5 ins.	.13	.12	
Taxus brownii, 4 to 5 ins.	.13	.12	

TERMS: Packing and boxing free. 3 per cent discount for cash with order.

250 plants of each variety at 1000 rate.

MIAMI NURSERY CO.
 Tipp City, O.

EVERGREENS

	100	1000
ROOTED CUTTINGS		
Arborvitae woodwardi, 6 to 8 ins.	\$0.09	\$0.08
Arborvitae pyramidalis, 6 to 8 ins.	.10	.09
Andorra Juniper, 4 to 8 ins.	.11	.10
Pfitzer Juniper, 4 to 8 ins.	.11	.10
Hetz Juniper, 4 to 8 ins.	.11	.10
Taxus andersoni, 6 to 8 ins.	.10	.09
Taxus browni, 4 to 8 ins.	.12	.11
Taxus capitata (leaders), 6 to 8 ins.	.14	.12
Taxus cuspidata, 6 to 8 ins.	.09	.08
Taxus hicksii, 6 to 8 ins.	.09	.08
1-YR. TRANSPLANTS		
Arborvitae woodwardi, 6 to 8 ins.	.20	.18
Taxus cuspidata, 6 to 8 ins.	.20	.18
Taxus hicksii, 4 to 8 ins.	.20	.18
2-YR. TRANSPLANTS		
Arborvitae woodwardi, 8 to 10 ins.	.27	.25
Taxus cuspidata, 8 to 10 ins.	.32	.30
Taxus hicksii, 8 to 10 ins.	.32	.30
Taxus capitata (leaders), 8 to 12 ins.	.36	.34
2-YR. TRANSPLANTS		
Taxus capitata (leaders), 10 to 14 ins.	.45	.40
Andorra Juniper, 10 to 14 ins.	.35	.30

GRAFTS

	Per 10	Per 100
Juniperus canaertii	\$0.65	\$0.60
Juniperus buxifolia	.65	.60
Juniperus keteleeri	.65	.60
Juniper, Spartan	.80	.75

SHRUBS

	Per 10	Per 100
Euonymus alatus, 15 to 18 ins.	.30	each
Euonymus yedoensis, 3 to 4 ft.	.30	each

300 of a variety at 1000 rate.

DRAKE'S NURSERIES
 G-4342 Branch Rd., Flint 6, Mich.

EVERGREEN LINERS

	Each	100	1000
BERCKMANS' BIOTA AUREA			
NANA			
Field-grown, 2-yr.	\$0.35	\$0.30	
2-in. pots, 1-yr.	.21	.18 1/2	
ARMSTRONG PFTZER JUNIPER			
2-in. pots, 1-yr.	.21	.18 1/2	
2-in. pots, 2-yr.	.25	.22 1/2	
Field-grown, 3-yr.	.45	.40	
HETZ GLAUCIA JUNIPER			
2 1/2-in. pots, 1-yr.	.21	.18 1/2	
BURK JUNIPER			
2 1/2-in. pots, 1-yr.	.22 1/2	.20	
TAXUS ANDERSONI			
2 1/2-in. pots, 1-yr.	.20	.17 1/2	
TAXUS COLUMBARI			
2 1/2-in. pots, 1-yr.	.20	.17 1/2	
TAXUS CUSPIDATA			
2 1/2-in. pots, 1-yr.	.20	.17 1/2	
TAXUS HICKSI			
2 1/2-in. pots, 1-yr.	.20	.17 1/2	
TAXUS MEDIA			
2 1/2-in. pots, 1-yr.	.20	.17 1/2	

TERMS: Cash with order. Free packing.

300 plants of a variety at 1000 rate.

50 plants of a variety at 100 rate.

VOGE NURSERY
 New Lebanon, O.

PINE, SPRUCE SEEDLINGS AND LINERS

	100	1000
Scotch Pine, 2-yr., 2 to 14 ins.	\$ 6.00	\$35.00
C.-lo. Blue Spruce, 4-yr., 6 to 12 ins.	8.00	55.00
Norway Spruce, 3-yr., 6 to 12 ins.	6.00	40.00
Juniperus glauca hetzi, 2-yr., 6 to 12 ins.	25.00	....
Spreading Jap. Yew, 3-yr., 4 to 8 ins.	30.00	....

Write for complete list.

PAINT CREEK NURSERIES
 B. D. 1 Shippenville, Pa.

EVERGREENS

	100	1000
ROOTED CUTTINGS		
Arborvitae, American, 6 to 8 ins.	\$ 9.00	\$ 80.00
Arborvitae, elegantissima, 5 to 6 ins.	10.00	....
Arborvitae, globe, 5 to 6 ins.	10.00	90.00
Arborvitae, pyramidal, 6 to 8 ins.	9.00	80.00
Juniperus (Andorra) plumosa, 6 to 8 ins.	9.00	80.00
Juniperus glauca hetzi, 6 to 8 ins.	10.00	90.00
Juniperus comm. hibernica (Irish), 5 to 6 ins.	10.00	90.00
Taxus browni, 4 to 6 ins.	10.00	90.00
Taxus brevifolia, 5 to 6 ins.	12.00	....
Taxus cuspidata, 6 to 8 ins.	9.00	80.00
Taxus hatfieldi, 6 to 8 ins.	12.00	110.00
Taxus hicksii, 6 to 8 ins.	11.00	100.00
Taxus intermedia, 6 to 8 ins.	11.00	100.00
Taxus pyramidalis, 6 to 8 ins.	12.00	....
Taxus repandens, 5 to 6 ins.	12.00	....
Taxus wardi, 4 to 6 ins.	12.00	....
Taxus wymani, 5 to 6 ins.	12.00	....
3-YR. TRANSPLANTS		
Arborvitae, American, 12 to 15 ins.	\$3.30	....
Juniperus glauca hetzi, 12 to 15 ins.	4.00	....
Retinospora, 18 to 21 ins.	.35	....
Taxus cuspidata, 12 to 15 ins.	.45	....

TERMS: Orders under \$100.00, cash with order, please. Orders over \$100.00, one-half deposit with order.

NEIDEL'S NURSERY & GREENHOUSE
 Mtd. Rt. 4, Hasson Heights
 Oil City, Pa.

HEAVY ROOTED CUTTINGS

	Per 100	Per 1000
Arborvitae, American, dark green; 6 to 10 ins.	\$0.10	\$0.09
Arborvitae, pyramidal, 6 to 10 ins.	.10	.09
Arborvitae, globe, 4 to 8 ins.	.10	.08
Juniperus hetzi glauca, 6 to 10 ins.	.10	.08
Juniper, Pfitzer, 6 to 10 ins.	.11	.09
Juniper, Savin, 6 to 10 ins.	.10	.08
Juniper, Von Ehron, 6 to 10 ins.	.11	.09
Juniper, Andorra, 6 to 10 ins.	.11	.09
Taxus cuspidata, 6 to 10 ins.	.11	.09
Taxus hicksii, 6 to 10 ins.	.11	.09
Taxus hunnewelliana, 6 to 10 ins.	.13	.12
Taxus capitata, 6 to 8 ins.	.13	.12
2-YR. TRANSPLANTS		
Juniper, Pfitzer, 8 to 10 ins.	\$0.25	....
Juniperus hetzi glauca, 8 to 10 ins.	.25	....
Juniper, Andorra, 8 to 10 ins.	.25	....

250 at 1000 rate. Spring delivery.

2 per cent discount, cash with order.

DE WINTER'S NURSERY
 653 Port Sheldon Rd.
 Grandville, Mich.

POTTED LINERS

	100	1000
2 1/4-in. pots.		
Taxus Adams, 1-yr.	\$18.00	\$170.00
Taxus andersoni, 1-yr.	18.00	175.00
Taxus andersoni, 2-yr.	24.00	230.00
Taxus browni, 1-yr.	18.00	170.00
Taxus browni, 2-yr.	24.00	230.00
Taxus capitata, 1-yr.	18.00	170.00
Taxus capitata, 2-yr.	23.00	220.00
Taxus cuspidata, 1-yr.	17.00	160.00
Taxus cuspidata, 2-yr.	22.00	210.00
Taxus cuspidata, 3-yr., TT.	32.00	300.00
Taxus hicksii, 1-yr.	18.00	170.00
Taxus hicksii, 2-yr.	23.00	220.00

EVERGREEN SEEDLINGS

	250	1250
Scotch Pine, 2-4, 2-yr.	4.00	20.00
Scotch Pine, 3-6, 2-yr.	4.00	20.00
Scotch Pine, 4-8, 2-yr.	5.00	25.00

TERMS: No charge for packing. 25 per cent with order, balance C.O.D. 250 of a variety at 1000 rate.

HEASLEY BROS. NURSERY
 Box 218, R. D. 1 Greensburg, Pa.

EVERGREEN LINERS

	Each	100	1000
Juniperus excelsa stricta,			
rooted cuttings	\$0.07	\$0.06	
4 to 6 ins.	.11	.10	
10 to 12 ins., transplants.	.22	.20	
Jun. glauca hetzi, rooted cut.	.07	.06	
Juniper, Irish, rooted cuttings.	.07	.06	
Juniperus pfitzeriana, rooted.	.08	.07	
Ilex rotundifolia, rooted cuttings	.04	.03	
6 to 8 ins.	.07	.06	
10 to 12 ins., transplants.	.22	.20	
Buxus japonica, rooted cuttings.	.04	.03	
Buxus harlandi, rooted cuttings.	.04	.03	
Pyracantha lalandi, rooted cut.	.04	.03	
Ligustrum lucidum, rooted.	.03	.02 1/2	
Taxus hicksii, 4 to 6 ins.	.09	.08	
Taxus cuspidata, 4 to 6 ins.	.09	.08	

THE BUSH RANCH

140 Woodland Dr., Thomasville, Ga.

James W. Lawson, Mgr. Phone Canal 6-4245

ROOTED CUTTINGS

Arborvitae, Pyramidal and dark American.
All cuttings 6 to 8 ins., May through June
shipment, 3 per cent discount for cash.

2-yr., 2-in. POT PLANTS,
immediate shipment.

Taxus hatfieldi, Hetz and Pfitzer Junipers.
Pyramidal, nigra, Siberian Arborvitae.
8 to 10-in. plants. F.O.B. Falmouth, Mass.

\$20.00 per 100, \$180.00 per 1000.

VAN TOL NURSERIES

ROOTED CUTTINGS

JUNIPERS	
Blue Pfitzer	Chinese, compact
Goldtip Pfitzer	Berckmans' Golden
Sabina	TAXUS
Sabina Von Ehron	Cuspidata
Sabina tamaricifolia	Cuspidata nana
Andorra	Brown
Procumbens	Hickel
Irish	Ward's media
BROADLEAFS	
Hetz glauca	Ilex glabra
Meyer	Pyracantha lalandi
Top quality, well rooted,	
\$12.00 per 100, \$100.00 per 1000.	
Shipment April and May.	
Cash with order, please.	

LEAVENWORTH NURSERIES

12th and Vilas Leavenworth, Kan.

EVERGREEN LINERS

Gardenia fortunei	Gardenia stricta nana
Gardenia radicans	Ligustrum lucidum
1 to 5 ins., rooted cuttings.....	\$ 4.00 \$ 30.00
4 to 6 ins., transplants.....	6.00 50.00
6 to 8 ins., transplants.....	10.00 80.00
8 to 12 ins., transplants.....	12.50 100.00
Baker Arborvitae	Ilex bullata
Berckmans' aurea	Hetz Juniper
nana	
Globe Arborvitae	

1 to 4 ins., rooted cuttings.....	\$ 6.00 \$ 50.00
4 to 6 ins., rooted cuttings.....	8.00 75.00
6 to 8 ins., rooted cuttings.....	12.50 100.00
8 to 12 ins., rooted cuttings.....	15.00 125.00

FLOWERWOOD NURSERY, INC.
P. O. Box 185 Cairo, Ga.
Phone 2-4021 or write.

JUNIPERS

Chinensis Blue Vase (Pfitzer sport), hardy wherever Pfitzer grows. When 2 ft. high, will be 2 ft. wide. No trimming. A natural blue-gray color.

Chinensis Blue Vase, 6 ins.,	
2 1/2-in. pots.....	\$20.00 \$150.00
Chinensis sylvestris, 2-yr.,	
12 to 15 ins., 2 1/2-in. pots.....	20.00 180.00
Chinensis fortunei, 2-yr.,	
12 to 15 ins., 2 1/2-in. pots.....	20.00 180.00
Thuja orientalis Blue Spire,	
8 to 10 ins., 2 1/2-in. pots.....	18.00 160.00

These are heavy, pot-grown liners, ready for outside planting.

BRADSHAW'S NURSERY

League City, Tex.
Phone 8-4811

HIGHEST QUALITY EVERGREEN LINERS

Azaleas, Junipers, Pteris, Rhododendrons, Taxus, Thuja, Teugas and others. 100 items, lowest possible cash prices. Seedlings and transplants, from 4c. Rooted cuttings and transplants, from 10c. Generous cash and quantity discounts.

BROOKDALE NURSERY

Brookdale Ave. at Winter St.
R.F.D. 2, Box 114,
Kingston, Mass.
Phone KINGSTON 2857
Member NEW ENGLAND NURSERYMEN'S ASSOCIATION

QUALITY LINERS

Douglas Fir, 5 to 8 ins., tr.....	\$15.00
Mugho Pine, 3 to 4 ins., tr.....	15.00
Canadian Hemlock, 4 to 5 ins., tr.....	17.50
Colorado Blue Spruce, 4 to 8 ins., tr.....	17.50
Viburnum carlesii, 4 to 12 ins., tr.....	25.00
Enkianthus camp., 8 to 12 ins., tr.....	25.00
French hybrid Lilacs, 4 to 8 ins., tr.....	27.50
American Holly, 6 to 10 ins., tr.....	27.50
Taxus (best varieties), 6 to 8 ins., tr.....	27.50
Rho. hybrids (red seed), 4 to 10 ins., tr.....	50.00
Pink Fig. Dogwood, 10 to 15 ins., tr.....	75.00
Red Jap. Maple, 1-yr. grafts.....	\$5.00

Send for new spring list.

POSSUM HOLLOW NURSERIES

6909 Henley St. Philadelphia 19, Pa.

CANADA HEMLOCK

Collected seedlings.

8 to 9-in. seedlings.....	\$ 5.00 \$ 30.00
9 to 12-in. seedlings.....	8.00 70.00
12 to 18-in. seedlings.....	15.00 120.00
18 to 24-in. seedlings.....	30.00

These are first-quality, collected Hemlocks, carefully dug and packed in sphagnum moss in ventilated boxes.

Send for complete list of hardy native Ferns, wild flowers, trees, shrubs and Evergreens.

ISAAC LANGLEY WILLIAMS

Box AN Exeter, N. H.

ROOTED CUTTINGS

Ready approximately May 1.	100 1000
Juniperus hetzi.....	\$10.00 \$35.00
Boxwood.....	8.00 65.00
Juniperus depressa.....	10.00 85.00
Taxus cuspidata.....	10.00 85.00
Taxus hickel.....	10.00 85.00
Arborvitae pyramidalis.....	10.00 85.00

25 at 100 rate; 300 at 1000 rate. Shipped prepaid if cash with order, or 50 per cent deposit, balance C.O.D. you pay shipping.

MARKAY NURSERY

Lake St. Middlefield, O.

ROOTED CUTTINGS AND TRANSPLANTS

Strong, true to type, rooted cuttings of the following:

Taxus varieties: Browni, kelseyi, hickel, femina, wardi, Hill's dwarf pyramidal, dwarf erecta and cuspidata.

Hill's pyramidal and boothi Arborvitae. These are large cuttings, hormone treated and radiant heat grown, producing an abundance of strong roots.

\$10.00 per 100 plants.
Write for prices of 2 and 3-yr. transplants of the above varieties.

Free packing for cash with order.

ARTLEY'S NURSERY

329 Cherry St. Montourville, Pa.

EVERGREEN SEEDLINGS 100 1000

Colorado Blue Spruce,	
2-0, 2 to 4 ins.....	\$ 4.00 \$25.00
3-0, 3 to 6 ins.....	6.00 30.00
3-0, 4 to 8 ins.....	9.00 45.00
Scotch Pine (non-yellowing)	
2-0, 2 to 4 ins.....	7.00 35.00
3-0, 3 to 6 ins.....	9.00 45.00
Concolor Fir, 2-0, 3 to 6 ins.....	10.00 50.00
Douglas Fir, 2-0, 4 to 6 ins.....	7.00 35.00
Douglas Fir, 3-0, 5 to 10 ins.....	10.00
Japanese Fir, 4-0, 6 to 12 ins.....	20.00
Am. Arborvitae, 3-0, 6 to 14 ins.....	8.00 40.00

NEUNER'S NURSERY

368 Eichler Rd. Pittsburgh 2, Pa.

JUNIPER GRAFTS

Varieties: Canaert, keteleeri, burki, glauca, hetzi, Pfitzer and chinensis columnaris, blue. Prices: 45c each, regardless of the number bought.

Terms: 1/4 cash with order, plus boxing and packing at cost and balance before shipping date, or, all cash with order and boxing and packing free.

WHEN BETTER GRAFTS ARE MADE, CRUME WILL MAKE THEM.

T. C. CRUME NURSERY CO.

Highway No. 42 Florence, Ky.
Phone Atlantic 3-2361

2 1/4-IN. POTS, WELL-ROOTED

5000 Pfitzer Juniper, 18c each.

3000 Andorra Juniper, 16c each.

2000 Taxus cuspidata (Yew), 17c each.

S. D. MANHART

2449 Highmore Rd., Box 461

Highland Park, Ill.
Phone ID 2-6681

PINE TREE SEEDLINGS

Scotch Pine, 3-yr., 8 to 12 ins.....	\$35.00
Scotch Pine, 3-yr., 12 to 16 ins.....	45.00
Scotch Pine, 2-yr., 4 to 8 ins.....	25.00
Austrian Pine, 3-yr., 8 to 12 ins.....	35.00
Mugho Pine, 3-yr., 3 to 5 ins.....	40.00

KISSINGER'S NURSERY

26 Ridge Ave. Homer City, Pa.

EVERGREENS

Per 100 Per 1000

Colorado Blue Spruce	
6 to 14 ins.....	\$7.50 \$55.00

Excellent, sturdy stock from parent trees of bluish color. We specialize in Christmas tree seedlings.

RAYMOND NELSON NURSERY

Airport Rd. DuBois, Pa.

EVERGREEN SEEDLINGS 100 1000

Douglas Fir, 1-0, 2 to 5 ins.....	\$5.00 \$30.00
Douglas Fir, 1-0, 6 to 8 ins.....	6.00 40.00
Scotch Pine, 1-0, 3 to 5 ins.....	5.00 30.00
Scotch Pine, 1-1, 3 to 6 ins.....	10.00 60.00
White Spruce, 2-0, 3 to 6 ins.....	6.00 40.00

Send post card for our seedling list.

CRITCHFIELD GLASS MTN.

TREE FARM NURSERY

On the Silverado Trail St. Helena, Calif.

BED-GROWN, BARE-ROOTED LINERS

2-yr., 8 to 10 ins., \$35.00 per 100.

TAXUS, halffield, capitata (top cuttings), cuspidata, hickel, repandens, Moon's columnaris and cuspidata nana.

ILEX, rotundifolia and bullata.

SPLIT ROCK NURSERIES

218 Farview Ave. Paramus, N. J.
Phone HU 9-4508

CHRISTMAS TREES

Transplants. Per 1000

Scotch Pine, 4-yr., 12 to 18 ins., 2-2.....	\$70.00
Austrian Pine, 6 to 10 ins., 4-yr.....	65.00
Norway Spruce, 12 to 18 ins., 4-yr.....	70.00
Colo. Blue Spruce, 8 to 12 ins., 4-yr.....	100.00
Blue Douglas Fir, 8 to 14 ins., 3-yr.....	50.00
Gray Douglas Fir (caesia), 10 to 18 ins.....	80.00

W. S. YOE NURSERIES

Lake St. Madison, O.

EVERGREENS

Strong 2-yr. Evergreen liners, out of 2 1/4-in. pots. Regular green Pfitzer Juniper, Hetz (blue), Pfitzer, Andorra Juniper, Von Ehron Juniper. All \$22.50 per 100. Cash, please.

DIEHL'S FLOWER SHOP & NURSERY

R. R. 1, Box 150 Columbia, Ill.

EVERGREENS

See our Classified ad in this issue under LINING-OUT STOCK.

T. G. OWEN & SON, INC.

Columbus, Miss.

CANADIAN HEMLOCK, BALSAM FIR,

WHITE SPRUCE

6 to 9, 8 to 12, 12 to 20 ins.

First-quality, collected Evergreens.

Carefully dug and packed.

Write for price list.

SUNBURY AIRPORT NURSERY

P. O. Box 416 Sunbury, Pa.
Phone Atlantic 6-2671.

SEEDLINGS

Per 1000

Scotch Pine, 4 to 6 ins.....	\$20.00
White Spruce, 4 to 8 ins.....	40.00
Colorado Blue Spruce, 4 to 6 ins.....	40.00
Norway Spruce, 4 to 6 ins.....	35.00
Douglas Fir, 4 to 10 ins.....	50.00

Also prices on shrubby trees on request.

SONES NURSERY

Phone GL 8-2531 Millville, Pa.

EVERGREENS

Each

200 Greek Juniper, 3 to 4 ft., nice..... \$2.50 |275 Hicks Yew, 2 to 3 ft., heavy..... 3.25 |300 Hicks Yew, liners, 2 yrs. in field, |

8 to 14 ins..... .45 |

Buyer must dig and haul.

CHANOSKI'S NURSERY

Route 1 Phone LA 3-4691 Jeannette, Pa.

EVERGREEN LINERS AND CUTTINGS

ROOTED CUTTINGS

Pfitzer Juniper.....10c

Pfitzer Hetz Juniper.....10c

2 1/4-IN. POTTED

Pfitzer Juniper.....20c

Pfitzer Hetz Juniper.....20c

Pyramidal Arborvitae.....20c

TOWNSEND EVERGREEN NURSERY

S. Walnut St. Hartford City, Ind.

SPECIAL, SPRING 1958 ONLY

Block to be cleared; row-run

50 100 1000

3-yr. Engelmann Blue |

Spruce, X..... \$5.00 \$30.00 |

7-yr. Mugho Pine, XX..... \$7.50 11.50 95.00 |

Order early. Limited supply.

PINE MOUNTAIN NURSERIES

Iron Mountain, Mich.

ROOTED CUTTINGS FROM SAND

Per 100 Per 1000

Taxus andersoni..... \$1.00 \$10.00 |

Taxus browni..... 11.00 100.00 |

Taxus cuspidata..... 10.00 80.00 |

Taxus hickel..... 10.00 80.00 |

Taxus wardi..... 15.00 125.00 |

Taxus intermedia..... 11.00 100.00 |

LEVEL GREEN NURSERY, Trafford, Pa.

BIOTA AUREA NANA

Well rooted cuttings, 3 to 4 ins.,

\$50.00 per 1000.

JOHNSON NURSERY

Baxter, Tenn.

NANDINA SEEDLINGS

3 to 6 ins.....\$ 5.00 per 100, \$ 40.00 per 1000

12 to 15 ins.....10.00 per 100, 90.00 per 1000

2 to 3 ft.....15.00 per 100, 140.00 per 1000

No C.O.D.

PINKSTON NURSERIES

Parrott, Ga.

EVERGREENS, B&B

WHITE PINE (PINUS STROBUS)

25 up 100 up

15 to 18 ins., B&B, 12-in. ball..... \$1.50 \$1.45 |

18 to 24 ins., B&B, 12 to 14-in. ball..... 1.75 1.70 |

24 to 30 ins., B&B, 12 to 14-in. ball..... 2.10 2.05 |

AMERICAN RED PINE (PINUS RESINOSA) |

15 to 18 ins., B&B, 12-in. ball..... \$1.50 \$1.45 |

18 to 24 ins., B&B, 12 to 14-in. ball..... 1.75 1.70 |

24 to 30 ins., B&B, 12 to 14-in. ball..... 2.10 2.05 |

30 to 36 ins., B&B, 15-in. ball..... 2.40 2.35 |

Choice specimen plants, 6 years old, trimmed 3 times. Fertilized; with good solid soil balls in rot-proof burlap if desired.

Terms: 30 days net, 1/3 with order, 2 per cent 10 days. Deliveries to Mich., Ill., Ind., Pa. and adjoining states.

WADE CHRISTMAS TREE FARMS

Route 1 Bellville, O.

JUNIPERS

Canaert Juniper, sheared, 4 to 5 ft.,

row-run.....\$3.75

Canaert Juniper, not sheared, 6 to 7 ft.,

row-run.....3.50

Keteleer Juniper, sheared, 3 to 4 ft.,

row-run.....3.50

Pfitzer Juniper, 3 to 4 ft., heavy..... 3.00 |

Hetz Juniper, 3 to 4 ft., heavy..... 3.00 |

Fastigiata Juniper, 5 to 6 ft., perfect..... 2.75 |

Chinese Blue Columnar Juniper, |

5 to 6 ft., perfect..... 2.75 |

These plants are a bargain at these prices.

Visit our nurseries and you will find many other bargains.

T. C. CRUME NURSERY & LANDSCAPING CO.

Highway No. 43 Florence, Ky.
12 miles south of Cincinnati, O.
Phone Atlantic 3-2361

EVERGREENS, B&B—Continued

EVERGREENS
Surplus stock, all B&B.
Grown from rooted cuttings in heavy rich soil.

Excelsa Arborvitae, 3 to 4 ft. \$1.25
Bonita Arborvitae, 18 to 24 ins. 1.00
Pfitzer Juniper, 18 to 24 ins. 1.25
Pfitzer Juniper, 24 to 30 ins. 1.50
Procumbens Juniper, 18 to 24 ins. 1.00
Junipers have been sheared and are full.
Stock to be dug after order received.
Prices quoted are F.O.B. our nursery.

WISE ADKISSON & SONS
Box 846 Greenville, Tex.

EVERGREENS, B&B
Each, 10 lots

100 Pyramidal Arborvitae, 2½ to 3 ft.	\$2.50
100 Pyramidal Arborvitae, 3 to 4 ft.	3.00
100 Siberian Arborvitae, 15 to 18 ins.	2.00
100 Siberian Arborvitae, 24 to 30 ins.	3.00
50 Globe Arborvitae, 12 to 15 ins.	1.50
150 Retinospora plumula aurea, 3 to 4 ft.	3.00
100 Retinospora plumula aurea, 2½ to 3 ft.	2.50

Call for these at the nursery.
CORRICK'S FLOWER GARDENS
Box 188 Mt. Airy, Md.
Phone Mt. Airy, Md., 1374

PFITZER JUNIPER
Each, 1 to 24 25 to 100

18 to 24 ins.	\$2.25	\$2.00
24 to 30 ins.	2.50	2.25

ARBORVITAE
Pyramidal, 3 to 4 ft. 2.25 2.00
Globe, 18 to 24 ins. 2.25 2.00

KERN NURSERY
600 S. 25th St. New Castle, Ind.

EVERGREENS, B&B
We have several blocks of B&B Evergreens, shade trees, shrubs and flowering Dogwood, which we will sell by the block, in the ground, at REAL BARGAIN PRICES. All nice, sheared material. No delay in write, or in delivery 3% evenings in advance. Ask for our spring list to the trade.

WHERRY'S NURSERIES, St. Marys, W. Va.

CHERRY LAUREL SEEDLINGS
3 to 6 ins. \$ 5.00 per 100, \$ 40.00 per 1000
8 to 12 ins. 10.00 per 100, 90.00 per 1000
12 to 18 ins. 15.00 per 100, 140.00 per 1000

No C.O.D.
PINKSTON NURSERIES
Parrott, Ga.

SPRUCE
250 Colorado, 6 to 10 ft.
100 Koester's, 8 to 10 ft.

BURMAK NURSERY
95 Hillside Ave. Peekskill, N. Y.
Phone PE 7-4669

JUNIPERS, PFITZER AND HETZ
5000 field-grown and sheared.
12 to 15 ins., 50¢; 15 to 18 ins., 75¢; 18 to 24 ins., \$1.00. You dig them. Row-run, \$60.00 per 100.

A. J. BUTTERFIELD, FARMINGTON, MO.

AMERICAN ARBORVITAE
3000 6 to 15 ft., some sheared, others natural. Make us an offer on entire block.

CHAMBERLAIN NURSERIES
Ovid, Mich.

B&B EVERGREENS, MANY KINDS
SEND FOR NEW LIST.
NAGLE'S NURSERY, DECATUR, MICH.

EVERGREENS, MISCELLANEOUS

EVERGREEN LINERS
2-yr. transplants, open bed, good root, fertilized, irrigated.

Arborvitae, pyramidalis, 8 to 100	1000
12 ins.	\$30.00 \$275.00
Arborvitae, globosa, 7 to 10 ins.	27.50 250.00

Terms: Cash, free packing.

Hetz Juniper, B&B, sheared; 15 ins., \$1.50; 15 to 18 ins., \$1.75; 18 to 24 ins., \$2.25; 24 to 30 ins., \$2.75; 30 ins., \$3.00.

Special, dig your own at lower price.

SHARP'S EVERGREEN NURSERY
413 S. Clinton St. Albion, Mich.

FRUIT AND NUT TREES

SURPLUS PEACH IN STORAGE

18 to 24 ins.	2 to 7/16 to 9/16 to 3 to 4 ft.	11/16 in.
35c	40c	55c
60c	200	280
45	250	58
11	450	600
150	300	375
175	350	450
160	47	50
.....	24	95
.....	60	40
16		

EGYPTIAN NURSERY & LANDSCAPE CO.
Two miles north of Farina on Route 37.
Farina, Ill.

APPLE TREES
Good assortment of varieties; 1 and 2-yr. trees. Dormant, ready for prompt shipment. Submit list for close-out prices.

WAYNESBORO NURSERIES
Waynesboro, Va.

SURPLUS LIST
Stanley Prune, on Myrobalan root,
4000 1 1/16-in., 75c.
500 9/16-in., 65c.
in lots of 100 or more.
Peach, Fairhaven,
500 1 1/16-in., 55c.
in lots of 100 or more.
1500 9/16-in., 45c.
2500 1 1/16-in., 35c.
1000 5/16-in., 25c.
Peach, Redhaven,
500 7/16-in., 35c.
2000 5/16-in., 25c.
Peach, Amber Gem,
1000 7/16-in., 35c.
1300 5/16-in., 25c.
Peach, Elberta,
1300 7/16-in., 35c.
700 5/16-in., 25c.

This stock is well-graded and extra heavy rooted. Samples on request. All priced F.O.B. Benton Harbor, Mich.

MOLTER'S MICHIGAN NURSERIES
1500 U. S. 12 Benton Harbor, Mich.
Day phone: Benton Harbor, Walnut 6-6914.
Night phone: Coloma, Howard 8-3040.

FRUIT TREES
PEACH TREES, Dixiered, Redhaven, Burbank Elberta, 2 to 3 ft., 30¢; 3 to 4 ft., 40¢; 4 to 5 ft., 50¢ each.
APPLES, Jon-a-dol, New. Originated in Iowa. A cross between Jonathan and Red Delicious. It has all the good qualities of each of them and is flavored more mild than the Jonathan, and has more acid than the Delicious. It is sure to make a number one commercial apple. 2 to 3 ft., \$1.40; 3 to 4 ft., \$1.65; 4 to 6 ft., \$1.95.
CHERRIES, Large Montmorency, Early Richmond, 11/16 and up, 95¢; 9/16 to 11/16, 80¢. Good height.
PEARS, Camus Kieffer, 3 to 4 ft., 85¢; 4 to 5 ft., 95¢; 5 to 6 ft., \$1.05.
DWARF APPLES, Red Jonathan, Red Delicious, Turkey, Red Stayman, Yellow Delicious, Summer Champion, 2 to 3 ft., \$1.00; 3 ft. and up, whips, \$1.45; 3 ft. and up, branched, \$1.80.
DWARF CHERRIES, Meteor and North Star, 1 to 2 ft., 65¢; 2 to 3 ft., 95¢.
BENTON COUNTY NURSERY CO., Rogers, Ark.

FRUIT TREES
PEACH TREES, Elberta, Belle of Georgia, Dixiered, Indian Cling, Mayflower, Red Cap, Sullivan Early Elberta, All 12 to 18 ins., 12½¢ each. Elberta, Belle of Georgia, 18 to 24 ins., 18¢ each; 2 to 3 ft., 25¢. APPLE TREES, Red Delicious, Yellow Delicious, Yellow Transparent, 12 to 18 ins., 12½¢ each. PURPLE-LEAVED PLUMS, Thundercloud, Newport, 12 to 18 ins., 15¢ each; 18 to 24 ins., 20¢; 2 to 3 ft., 25¢. FLOWERING PEACH, double red-flowering, pink-flowering (Helen Borchers), new red-leaved, 12 to 18 ins., 15¢ each; 18 to 24 ins., 20¢; 2 to 3 ft., 25¢. 3 per cent cash discount, March only.
GLOBE NURSERIES
Box 249 McMinnville, Tenn.

800 DWARF APPLE TREES
(E. MALLING VII and IX)
E. Malling IX, at maturity, 6 to 8 ft., bearing 30 to 80 lbs. of apples. E. Malling VII, trees 10 to 15 ft. at maturity, 350 2 to 3 ft., 65¢ each; 350 3 to 5 ft., \$1.00 each. All 1-yr.-old, 80 2-yr.-old trees, 3 to 5 ft., \$1.50. Many varieties.

BAUM'S NURSERY
R.F.D. 4 Danbury, Conn.

PEACH TREES
Elberta, Early Elberta, J. H. Hale, Golden Jubilee, Redhaven and Frank (Cling), 2 to 3 ft., \$15.00; 3 to 4 ft., \$20.00; 4 to 5 ft., \$30.00 per 100.
Montmorency Cherry, 2 to 3 ft., \$40.00 per 100.
Packing free. Prompt service.

CLINGER NURSERY
Highway 71 West Rogers, Ark.

PLUMS
10 100
11/16-in., 5 to 7 ft. \$9.00 \$85.00
9/16-in., 4 to 5 ft. 8.00 75.00

Abundance, Burbank, Methley, Shropshire Damson.
Ask for complete wholesale price list.
WAYNESBORO NURSERIES
Waynesboro, Va.

Budded and grafted Thomas Black Walnut trees, 2-yr., approximately the following: 30 2 to 3 ft., \$1.00 each; 95 3 to 4 ft., \$1.20 each; 110 4 to 5 ft., \$1.85 each; 100 5 to 6 ft., \$2.10 each; 30 6 to 8 ft., \$2.60 each. Cash with order earns 2 per cent discount; otherwise 25 per cent cash with order and balance before shipment. Packed free.

Harwell Nursery, Van Buren, Ark.

PEACH TREES
Large assortment of varieties and sizes in dormant condition. Submit want list for special prices.

WAYNESBORO NURSERIES
Waynesboro, Va.

Turn your Surplus Stock into cash, with a Classified Ad in the American Nurseryman.

AMERICAN NURSERYMAN

APRIL 1

GARDEN ROOTS

RHUBARB ROOTS
Excellent stock that will please both you and your customers. Varieties: Victoria or Myatts Linneaus. 25 100 250 1000

2-in. and up, forcing grade ... \$5.00 \$17.50 \$37.50 \$125.00
1½ to 2-in. caliper 3.00 10.00 23.75 90.00
1 to 1½-in. caliper 2.50 8.00 18.75 70.00
¾ to 1-in. caliper 2.25 6.50 15.00 55.00
Immediate or later shipment as desired.
Free packing for cash with order.

BUNTINGS' NURSERIES, INC.
Box 3 Selbyville, Del.

ASPARAGUS ROOTS
We are the largest growers of Asparagus roots in America. The continued increase in demand indicates complete customer satisfaction.

MARY WASHINGTON ASPARAGUS
25 100 250 1000
3-yr., No. 1 grade ... \$1.50 \$5.00 \$10.00 \$35.00
2-yr., No. 1 grade ... 1.25 3.50 7.00 24.00
1-yr., No. 1 grade ... 1.00 2.50 5.00 16.00
Immediate or later shipment as desired.
Free packing for cash with order.

BUNTINGS' NURSERIES, INC.
Box 3 Selbyville, Del.

RED RHUBARB
Chipman's Canada Red Rhubarb, No. 1 divisions, \$25.00 per 100, 50 at 100 rate.

VAN DE MOORTELL PERENNIAL GARDENS
7250 18½ Mile Rd. Utica, Mich.

CHIPMAN'S CANADA RED RHUBARB
First-class, freshly cut divisions, \$25.00 per 100, \$250.00 per 1000. Inquire for large quantity prices. Can ship any time.

C. D. WRIGHT, HAMBURG, IA.

GRAPEVINES

GRAPEVINES
Strong fibrous root system with heavy tops. Our Grapevines will please the most discriminating type of buyer.

	Per 100	Per 1000
Concord, blue		
3-yr., No. 1	\$2.50	\$22.50
2-yr., No. 1	2.00	16.00
1-yr., No. 1	1.75	12.00

Catawba, red
Fredonia, black
Niagara, white
Worden, black

3-yr., No. 1	2.75	25.00
2-yr., No. 1	2.25	18.00
1-yr., No. 1	1.85	14.00

Immediate or later shipment as desired.
Free packing for cash with order.

BUNTINGS' NURSERIES, INC.
Box 3 Selbyville, Del.

9,500 Active Nurserymen are in need of stock. List your offerings in the American Nurseryman Classified Section.

GROUND COVERS

GROUND COVERS
Per 100

Ajuga reptans	\$5.00
Ajuga, red-leaved	5.00
Vinca minor, variegated	3.00
Pachysandra	10.00
Euonymus vegetus, 2-yr.	30.00
Euonymus vegetus, 3-yr.	40.00
Euonymus coloratus erectus, 2-yr.	30.00
3-yr.	40.00
12 to 15 ins., T.	50.00
15 to 18 ins., T.	60.00
18 to 24 ins., T.	70.00
Euonymus coloratus, 2-yr.	20.00
Euonymus coloratus, 3-yr.	30.00
Euonymus Berryhill, 2-yr.	30.00
Euonymus Berryhill, 10 to 12 ins., T.	40.00
Euonymus Berryhill, 12 to 15 ins., T.	50.00

Terms: Cash with order, please. No packing charges.

HOPPERTON NURSERY
P. O. Box 65 Naperville, Ill.

MYRTLE
Excellent plants from field-grown clumps, shipped in peat moss, \$8.50 per 100, \$80.00 per 1000; pot-grown plants, 3-in. peat pots, \$16.50 per 100, \$150.00 per 1000.

PACHYSANDRAS
1-yr. plants, \$4.50 per 100, \$40.00 per 1000; 2½-in., pot-grown, \$10.50 per 100, \$95.00 per 1000.

All inquiries answered immediately. All orders shipped promptly.

BIRCH HILL NURSERY
Lower Cross Road Greenwich, Conn.
Phone Norandy 1-9212

Hardy Myrtle (Vince minor), plants with 20 leads or more and good roots, \$5.00 per 100, \$45.00 per 1000. Pachysandra, sand-rooted cuttings, \$40.00 per 1000. English Ivy, sand-rooted cuttings, \$40.00 per 1000. Cash.

Samuel I. Minder, 305 Euclid Ave., Lancaster, Pa.

HARDY MYRTLE (VINCA MINOR)

Common Periwinkle.
Heavy canes, freshly dug, 15 to 25 large
canes, clumps, \$50.00 per 1000.
Honeysuckle, Hall's halliana, 3-yr., branch-
ed, \$45.00 per 1000.
English Ivy, large-leaved, Scottish strain;
rooted cuttings, \$50.00 per 1000.
Boston or Engelmann's Ivy, \$50.00 per 1000.
Euonymus coloratus, 1-yr., rooted cuttings,
\$55.00 per 1000.

H. C. WAUGH
Box 41, Upper River Rd. Gallipolis, O.

Surplus Stock
can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads

HARDY PLANTS

HARDY FIELD-GROWN PERENNIALS
Aquilegia, 7 separate colors; Arabia,
Asclepias tuberosa, Astilbes, Aubrietas, Cam-
panulas, Carnations, Chives, Dianthus, Dig-
italis, Gaillardias, Geums, Lavender, Liatris,
Rusell Lupines, Lythums, Myosotis, Phlox
subulata, 15 varieties; Platycodons, Prim-
roses, Pyrethrum, Daisies, Shasta Daisy,
Esther Reed, Sedums, 10 varieties; Sweet
Williams, Thymes, Tritomas, Trollius, Ver-
onicas, Violas and Violets.

If you haven't received our list, send for it
now. 100 or more good varieties.
All plants freshly dug for each order.
Orders taken now for spring delivery.

Shipping date, after March 15,
GEORGE FRANK & SON
Penfield, N. Y.

HARDY PERENNIALS

Strong 1 and 2-yr.

Our new spring list is now ready.
Phlox, Creeping Phlox, Delphiniums, Chrys-
anthemums, Columbine, Iberis, Lavenders,
Canterbury Bells, Sweet Williams, Platycod-
ons, Gaillardias, Hollyhocks, Foxgloves, Dai-
sies, Artemisia Silver King, Carnations, Core-
opsis, Gypsophila, Hibiscus, hardy Sweet
Peas, Tritomas and many others. Write for
complete list.

HENRY LE POIRE

Route 2 Zeeland, Mich.

Strong, transplanted, irrigated perennials:
Delphinium Galahad, white; 2-yr., \$8.00 per
100. Creeping Phlox, white, red, pink, lilac
and blue; field clumps, \$12.00 per 100. Rus-
sell Hybrid Lupine, yearlings; No. 1 grade,
\$8.00 per 100. Russell Hybrid Lupine Rita
Red, imported seed; yearlings; blooming-size
plants, \$15.00 per 100. Viola Blue Perfection,
extra strong, pinched plants, \$7.00 per 100.
Cash with order. F.O.B. Mercer, Wis.
Schultz Perennial Gardens, Box 234, Mer-
cer, Wis.

Hardy Ferns from the northwest.

Polypodium vulgare (Licorice Fern).....	100	1000
Struthiopteris spicant (Deer Fern).....	15	100
Athyrium filixfemina (Lady Fern).....	10	75
Polystichum munium (Western Sword).....	15	100
Cryptogramma acrostichoides (Parsley Fern).....	30	75
Adiantum pedatum (Maidenhair).....	10	75

Forest Gardens, Box 276, Wheeler, Ore.

SPECIALIZING IN PERENNIALS

We grow over 500,000, strong field-grown
plants.
Send for our spring 1958 catalog.

SPRINGBROOK GARDENS, INC.

Dept. A-10 Mentor, O.

IBERIS

Sempervirens, fine 2-yr. plants, \$2.20 per
10. \$20.00 per 100. \$190.00 per 1000.
Snowflake, 2-yr. plants, \$2.50 per 10, \$22.00
per 100. \$210.00 per 1000.

PITZONKA'S PANTRY FARM & NURSERY

Bristol, Pa.

BLEEDING HEARTS

Dicentra spectabilis, 2 to 3-eye, \$35.00;
4 to 8-eye, \$45.00 per 100. F.O.B. Battle Creek.

VERONA GARDENS

Route 5 Battle Creek, Mich.

HARDY FERNS (DORMANT ROOTS)

\$10.00 per 100, \$75.00 per 1000.

Ostrich, Clayton, Lady and Maidenhair.

STRAND NURSERY CO.

Taylor's Falls, Minn.

America's best source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

HARDY PLANTS

Write for latest price list.

VAN EGEN'S

KALAMAZOO GARDENS NURSERY

208 Richard Ave. Kalamazoo, Mich.

SPECIALISTS IN HARDY PERENNIALS

Ask for wholesale offer.

PEARCE SEED CO., Moorstown, N. J.

WELLERS BETTER PERENNIALS

WELLER NURSERIES CO., Holland, Mich.

Write for trade list.

HELLEBORUS**HELLEBORUS NIGER**

(Christmas Rose)

3-yr. transplants, blooming size.
Suitable to pot up for sales on roadside
stands and garden centers.
\$50.00 per 100, \$450.00 per 1000.

C. HOOGENDOORN

Turner Rd. Newport, R. I.

HOLLY**ILEX**

Strong, healthy 2 1/2-in. pot-grown, in
sterilized soil. Well established. Satisfaction
guaranteed.

	Per 100
Ilex cornuta burfordi	\$12.50
Ilex cornuta femina (3-in. pots).....	20.00
Ilex crenata helleri	17.50
Ilex crenata rotundifolia	15.00
Ilex opaca East Palatka	20.00
Ilex opaca femina	20.00
Ilex opaca fosteri	20.00
Ilex vomitoria nana (dwarf Yaupon).....	20.00

COTTAGE HILL NURSERY

4600 Japonica Lane Mobile, Ala.

HOLLY NAMED VARIETIES

All 1-yr. bed-grown liners of exceptional
quality. Very heavy root system. Ideal for
field plantings.

Aquifolium: J. G. Esson, pyramidalis com-
pacta, Royal Purple, Zimmerman No. 1 and
No. 2.
Opaca: Cardinal, Excelsior, M. Farage,
Matawan, Mr. Heavy Berry, M. Muller's No.
1 and No. 2, Old Heavy Berry, Rumson and
Xanthocarpa.

Royal Purple and OHB, \$90.00 per 100.

All other varieties, \$60.00 per 100.

JAMES S. WELLS NURSERY

P. O. Box 141 Red Bank, N. J.

ILEX, ROOTED CUTTINGS

From our own northern Ohio stock plants.
Aquifolium, male

Aquifolium, female

Crenata hetzi

1-YR. BEDDED STOCK

Aquifolium, female

Crenata rotundifolia

2-YR. BEDDED STOCK

5323-5351 Wilson Mills Rd. Cleveland 24, O.

MAHLSTEDE BROS.

3123-3151 Wilson Mills Rd. Cleveland 24, O.

HOLLIES

Virginia, Carolinas and Georgia nursery-
men! Ilex, rotundifolia and burfordi; also
Nandinas. 2-yr., bed-grown liners, for im-
mediate shipment, \$125.00 per 1000, \$15.00
per 100. Prefer to ship Railway Express.

Route 3 Easley Nursery

Phone Greenville, S. C. Cedar 2-0294.

ILEX OPACA

Named varieties, four years in field.

2 to 3 ft., B&B..... \$ 5.00

3 to 4 ft., B&B..... 7.50

4 to 5 ft., B&B..... 10.00

SIMPSON ORCHARD CO., INC.

1504 Wheatland Rd. Vincennes, Ind.

Phone 489-3

ILEX OPACA

SUPERIOR NAMED VARIETIES

WHOLESALE SUPPLIERS

OF LINING-OUT STOCK.

Write for price list.

HOLLY HAVEN, INC.

Box 76 New Lisbon, N. J.

HOLLY LINERS

Ilex opaca femina, 3-in. pots, 40c.

These plants rooted from northern type

Hollies, selected with special attention to

foliage color, berry quantity and quality.

DONALD J. HILLENMEYER

1550 Meadowthorpe Ave. Lexington, Ky.

ILEX CRENATA ROTUNDIFOLIA

8 to 10 ins. 9c

10 to 15 ins. 12c

2-yr., open lath beds. All are green.

B. F. PONDER

308 6th Ave., S. Lanett, Ala.

MAY WE QUOTE YOU ON OUR

BETTER OREGON HOLLIES

Skimmia Japonica, general nursery stock.

ALFRED TEUFEL, WHOLESALE GROWER

11414 N.W. Cornell Rd. Portland, Ore.

HONEYSUCKLES**HONEYSUCKLES**

Lonicera japonica halliana, extra-heavy

No. 1, 3 and 4-yr., 18 to 21-in. field plants,

3, 4, to 6 leads, \$40.00 per 1000; lighter grade,

\$30.00 per 1000; sample 100, \$4.00. Experi-

enced labor for grading and packing quan-

ties orders. Immediate shipment. No order

too large. Phone: OR 2-4612.

ROBINSON NURSERY CO., Greenville, Ga.

IVIES**BALTIC IVY**

Hardest Ivy. Fine for wall or ground

cover. True stock. Well rooted plants, 8 to

12-in. vines. Per 100 Per 1000

2-in. pots

2 1/2-in. pots, 1-yr. \$12.50 \$115.00

2 1/2-in. pots, 2-yr. 20.00 190.00

STRATFORD GARDENS

Russell Breece, Mtd. Rt. 9 Delaware, O.

HEREDERA HELIX, TRUE ENGLISH IVY
Bushy, clean stock, pot-grown, well-rooted.
2 1/2-in. pots (2 plants per pot), \$12.00 per 100.
Sample sent on request.

THE EDWARD LEHDE NURSERIES
86 French Rd. (Gardenville) Buffalo 24, N. Y.

ENGLISH IVY

Large-leaved, Boston and climbing rock,
rooted cuttings, any quantity, \$50.00 per 1000.

IVY DALE NURSERY

R. R. 1 Gallipolis, O.

LAWN GRASS AND SEED**LAWN SEED**

Wholesale prices. F.O.B. New York.

	50 lbs.	100 lbs.
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Sunny Best Mixture with		
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Merion Blue Grass	\$46.00	\$86.00
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Landscape Gardeners' Mixture	28.00	50.00
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Cemetery Mixture	31.00	56.00
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Shady Best Mixture	27.00	47.00
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300 lbs. or more shipped freight paid.

Write for complete list showing contents

of above and other formulas and current

prices for individual grasses.

HERBST BROTHERS

SEEDSMEN, INC.

678 Broadway New York 12, N. Y.

"PURE KY." BLUE GRASS LAWN SEED

Every seed known to be grown right here

in the heart of the blue grass section of Ky.

Still the best foundation to count on.

100 lbs., \$50.00; 50 lbs., \$26.50; 25 lbs.,

\$15.00; 10 lbs., \$7.00. All F.O.B. here, sub-

ject change and unsold.

Route 2 WALNUT LAWN FARM

Lexington, Ky.

For 116 years.

CERTIFIED MEYER Z-52 ZOYSIA GRASS

Producers of Meyer Z-52 Zoysia.

\$35.00 per 1000, 2-in. plugs.

100 plugs trial order.

parcel post prepaid, \$5.00.

50-plus flats available for profitable

retail display sales.

MIAMI NURSERY CO.

Corner of State Rts. 25 and 71

Tipp City, O.

Lawn Grass, Meyer (Z-52) Zoysia, Emerald

Zoysia, Zoysia Matrella and Tifdawn 57,

Tiflone 127, Tifgreen 328. Wholesale prices.

Any quantity. Sample package, enough to

plant 500 sq. ft., \$5.00 each, prepaid. Plant-

ing instructions included. Send check with

order. Merry Grass Nursery, Dept. C, Box

2176, Spring Hill Sta., Mobile, Ala. Garden

8-1775.

LILACS**FRENCH HYBRID LILACS**

Over 200 kinds. All on own roots.

Fine varieties; vigorous; true to name

stock. All sizes from 18 ins. to 10 ft. Prices

start at 50c. Ask for quotations on your

particular needs.

LILAC LINERS

Each, 100 1000

Syringa vulgaris (French hybrids)

18 to 24 ins. \$0.10 \$0.08

2 to 3 ft. 12 .10

Syringa vulgaris (French hybrids, white)

18 to 24 ins. \$0.10 \$0.08

2 to 3 ft. 14 .12

Syringa vulgaris (common purple)

2 to 3 ft. 10 .08

PARKER'S PEONY FARM

Payetteville, N. Y.

LINING-OUT STOCK**LINING-OUT STOCK**

Per 100 4-6X 6-8X 8-10X

Arborvitae boothi

Berberis julianae

Ilex convexa bullata

cornuta, rooted cuttings

crenata

rotundifolia

Juniperus hetzi glauca

Leucothoe catesbaei

Ligustrum lucidum

Osmanthus aquifolium

Pyracantha cocc. islandi.

2 1/2-in. pots

Regels Privet

Retinospora juniperoides

Taxus cuspidata

No packing charges. Write for complete

LINING-OUT STOCK—Continued

LINING-OUT STOCK

LINING-OUT STOCK
We specialize in growing the finest in lining-out stock and guarantee satisfaction from these strong, healthy, bed-grown liners. They are all grown in sterilized soil and have excellent fibrous roots.

	Per 100
BUXUS HARLANDI	
BUXUS JAPONICA	
4 to 6 ins.	\$ 8.50
6 to 8 ins.	10.00
CLEYERA JAPONICA	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
EUCONYMUS PATENS	
8 to 12 ins.	12.50
GARDENIA FORTUNEI	
GARDENIA MYSTERY	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins.	15.00
GARDENIA RADICANS	
(8 to 12 ins. only)	
GARDENIA STRATA NANA	
8 to 12 ins.	12.50
12 to 18 ins.	15.00
ILEX CASSINE ANGUSTIFOLIA	
8 to 10 ins.	15.00
10 to 15 ins.	17.50
ILEX CORNUTA PURPORDI	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins.	15.00
12 to 18 ins., 2-yr., heavy	20.00
ILEX CRENATA CONVEXA	
6 to 8 ins.	12.50
8 to 10 ins.	15.00
10 to 15 ins.	20.00
ILEX CRENATA ROTUNDIFOLIA	
6 to 8 ins.	10.00
8 to 10 ins.	12.50
10 to 15 ins.	15.00
2-yr., heavy	20.00
well-rooted cuttings	5.00
ILEX OPACA EAST PALATKA	
ILEX OPACA FEMINA	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
12 to 18 ins.	17.50
ILEX OPACA FOSTERI	
8 to 12 ins.	15.00
ILEX VOMITORIA FEMINA	
6 to 8 ins.	12.50
LIGUSTRUM LUCIDUM COMPACTUM	
well-rooted cuttings	3.00
\$25.00 per 1000	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins.	15.00
MAGNOLIA FUSCATA	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
MAGNOLIA SOULANGIANA	
18 to 24 ins. (2-yr.)	40.00
2 to 3 ft. (2-yr.)	50.00
NANDINA DOMESTICA	
6 to 8 ins.	10.00
8 to 12 ins.	15.00
OSMANTHUS FORTUNEI	
OSMANTHUS FRAGRANS	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins. (fragrans only)	15.00
PHOTINIA GLABRA	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
PITTIOSPORUM TOBIRA	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins.	15.00
PYRACANTHA HORIZONTALIS	
PYRACANTHA GRABERI	
PYRACANTHA COCCINEA	
LALANDI	
12 to 18 ins.	15.00
CONIFERS	
	Per 100
CEDRUS DEODARA	
8 to 12 ins.	\$15.00
12 to 18 ins.	17.50
JUNIPERUS CHINENSIS	
FEMINA (SYLVESTRIS)	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
JUNIPERUS CHINENSIS	
GLAUCA HETZI	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
JUNIPERUS CHINENSIS	
PITZERIANA	
6 to 8 ins.	17.50
8 to 12 ins.	20.00
JUNIPERUS CHINENSIS	
PYRAMIDALIS (SPINY GREEK)	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
JUNIPERUS HORIZONTALIS	
PLUMOSA (ANDORA)	
8 to 12 ins.	17.50
PODOCARPUS SINENSIS	
6 to 8 ins.	10.00
8 to 12 ins.	15.00
Send our separate listing this issue for potted liners. Wholesale catalog sent free upon request.	

COTTAGE HILL NURSERY
4000 Japonica Lane Mobile, Ala.

Taxus, Ilex, broad-leaved Evergreens, etc., in variety. Write for our latest list of liners and finished stock.
Del-Mar-Va Nurseries, Box 3, Lincoln, Del.

SEEDLINGS		100	1000
Crataegus phaeocorymbus (cordata).			
1-yr. seedlings, 12 to 15 ins.	\$. 75	\$50.	\$60.00.
Picea pungens glauca,			
2-yr. seedlings, 4 to 6 ins.	5.00	40.00.	
Pinus strobus, 4-yr. seedlings,			
4 to 6 ins.	7.00	60.00	
Taxus capitata, 2-yr. seedlings,			
3 to 6 ins.	10.00	85.00.	
Thuja occidentalis, 2-yr. seed-			
lings 4 to 6 ins.	5.00	40.00.	
Magnolia virginiana, 2-yr.			
seedlings, 4 to 8 ins.	10.00	85.00.	
WELL-ESTABLISHED CUTTINGS			
FROM 24-IN. POTS			
Berberis	\$3.50	\$25.00.	
Berberis thunbergii atropurpurea			
(Crimson Pygmy)	3.50	25.00.	
Chamaecyparis cyano viridis.	3.00	20.00.	
Chamaecyparis plumosa aurea.	3.00	20.00.	
Elaeagnus	3.00	20.00.	
Euonymus japonicus	3.00	20.00.	
Euonymus patens	3.00	20.00.	
Euonymus vegetus	3.00	20.00.	
Ilex aquifolium Citra Major.	5.00	40.00.	
Ilex glabra	3.00	20.00.	
Ilex crenata convexa	3.00	20.00.	
Ilex crenata helleri	3.00	20.00.	
Ilex crenata microphylla	3.00	20.00.	
Ilex crenata rotundifolia	3.00	20.00.	
Ilex glabra	3.00	20.00.	
Ilex opaca (4 to 6 ins. in the			
following named varieties)	5.00	45.00.	
Arden			
Christmas Tide	Farage		
Ed. Bradley	Ferns No. 16		
Juniper depressa plumosa	Joree	3.00	20.00.
Juniper horizontalis			
(Bar Harbor)	3.00	20.00.	
Juniperus horizontalis			
Wilton's glauca	3.00	20.00.	
Juniperus pfitzeriana nana.	3.00	20.00.	
Pieris japonica	3.00	20.00.	
Prunus laurocerasus			
schedoniensis	3.50	30.00.	
Sarcococca hookeriana humilis.	3.00	20.00.	
Taxus canadensis stricta	3.00	20.00.	
Taxus cuspidata nana	3.00	20.00.	
Taxus media clifforti	3.00	20.00.	
Taxus media clintonian	3.00	20.00.	
Taxus media henryi	3.00	20.00.	
Taxus media hicksi	3.00	20.00.	
Taxus media Moon's columnaris.	3.00	20.00.	
Taxus media vermeuleni	3.00	20.00.	
Taxus media wiltoni	3.00	20.00.	
Thuja occidentalis	Howe	3.00	20.00.
type	3.00	20.00.	
Thuja occidentalis globosa novum	3.00	20.00.	
Thuja occidentalis nigra	3.00	20.00.	

LINING-OUT LIST	
PRICES SUBJECT TO CHANGE	
WITHOUT NOTICE.	
ALL POTTED LINERS ON THIS LIST ARE PRICED FOR SHIPMENT IN PAPER POTS OR CUPS. THOSE WHO PREFER THE ORDINARY METHOD OF PACKING, OMITTING THIS ADDED PROTECTION, MAY REDUCE 10c PER PLANT. THIS 100c RATE APPLIES ON ALL ORDERS. THEREFORE, PLEASE ORDER IN MULTIPLES OF 25 OR MORE.	
	EACH, PER 1000
IOTA AUREA NANA	
2 1/4-in. pots	..\$0.18
2 1/2-in. pots	..20
IOTA AUREA PYRAM. COMPACT	
2 1/4-in. pots	..16
2 1/2-in. pots	..18
IOTA BAKERI, surplus price	
2 1/4-in. pots	..12
2 1/2-in. pots	..14
IOTA BONITA	
2 1/4-in. pots	..16
2 1/2-in. pots	..18
IOTA EXCELSA	
2 1/4-in. pots	..18
2 1/2-in. pots	..20
IOTA SIBYL	
2 1/4-in. pots	..16
2 1/2-in. pots	..18
EDRUS DEODARA, surplus price	
12x15-in. seedlings, grafting size	..15
LUE LAWSON CYPRESS	
2 1/4-in. pots	..16
2 1/2-in. pots	..18
NIPERUS CHIN. PFITERIANA	
2 1/4-in. pots	..16
NIPERUS CHIN. PF. NANA	
2 1/4-in. pots	..20
NIPERUS CHIN. PF. BLUE GREY	
2 1/4-in. pots	..15
2 1/2-in. pots	..17
NIPERUS GLAUCA HETZI	
2 1/4-in. pots	..16
2 1/2-in. pots	..18
NIPERUS HORIZ. PLUMOSA	
2 1/4-in. pots	..16
NIPERUS VIRGINIANA KETELEERI	
2 1/4-in. pots	..18
XUS MEDIA BREVIFOLIA	
2 1/4-in. pots	..18
XUS MEDIA NIPLORA	
2 1/4-in. pots	..14
2 1/2-in. pots	..16
XUS JULIANAE	
2 1/4-in. pots	..20
2 1/2-in. pots	..22 1/2
XUS SARGENTI	
2 1/4-in. pots	..16
XUS JAPONICA	
2 1/4-in. pots	..12

(Continued in next column)

(Continued from previous column)

BUXUS SEMPERVIRENS CRONI		
2 1/4-in. pots	.....	.20
2 1/2-in. pots	.....	.22 1/2
CAMELLIA SAS. MAIDEN'S BLUSH		
2 1/4-in. pots	.....	.12
2 1/2-in. pots	.....	.15
ELAEAGNUS FRUITLANDI		
2 1/4-in. pots	.....	.16
2 1/2-in. pots	.....	.17
EUNYMYUS JAPONICUS		
2 1/4-in. pots	.....	.15
EUNYMYUS PATENS, small leaf		
2 1/4-in. pots	.....	.16
EUNYMYUS RADICANS ERECTA		
2 1/4-in. pots	.....	.16
GARDENIA FORTUNEI, surplus price.		
2 1/4-in. pots	.....	.10
GARDENIA RADICANS		
2 1/4-in. pots	.....	.16
3-in. pots	.....	.20
ILEX CORNUTA, seedl. surplus price		
2 1/4-in. pots	.....	.12
3-in. pots extra heavy	.....	.20
ILEX CORNUTA BURFORDI		
2 1/4-in. pots	.....	.20
2 1/2-in. pots	.....	.17
3-in. pots	.....	.25
ILEX CORNUTA FEMINA		
2 1/4-in. pots	.....	.18
2 1/2-in. pots	.....	.20
ILEX CRENATA JAPONICA BULLATA		
2 1/4-in. pots	.....	.16
2 1/2-in. pots	.....	.17
ILEX CRENATA FOSTERI No. 1		
2 1/4-in. pots	.....	.18
ILEX CRENATA ROTUNDIFOLIA		
2 1/4-in. pots	.....	.16
2 1/2-in. pots	.....	.17
3-in. pots	.....	.20
ILEX OPACA EAST PALATKA		
2 1/4-in. pots	.....	.16
2 1/2-in. pots	.....	.18
ILEX OPACA FEMINA		
2 1/4-in. pots	.....	.20
JASMINUM FLORIDUM		
2 1/4-in. pots	.....	.15
CHERRY LAUREL		
2 1/2-in. pots	.....	.14
LIGUSTRUM IONANDRUM		
2 1/4-in. pots	.....	.15
2 1/2-in. pots	.....	.17
LIGUSTRUM JAPONICUM		
2 1/4-in. pots	.....	.12
LIGUSTRUM LUCIDUM COMPACTUM		
2 1/4-in. pots	.....	.15
2 1/2-in. pots	.....	.16
LIGUSTRUM SINENSIS PENDULUM (weeping Amur River South Privet)		
2 1/2-in. pots	.....	.12
MAGNOLIA GRANDIFLORA		
2 1/4-in. pots	.....	.15
2 1/2-in. pots	.....	.18
MAHONIA BEALEI		
3-in. pots	.....	.25
NARCISSUS AMESTICA		
1x4-in. seedlings	.....	.05
2 1/4-in. pots	.....	.10
2 1/2-in. pots	.....	.12
3-in. pots	.....	.20
PHOTINIA SERRULATA		
2 1/4-in. pots	.....	.18
2 1/2-in. pots	.....	.20
PITTOSPORUM FORBESII		
2 1/4-in. pots	.....	.16
2 1/2-in. pots	.....	.18
PODOCARPUS MACROPHYLLA		
2 1/4-in. pots	.....	.16
2 1/2-in. pots	.....	.18
3-in. pots	.....	.22 1/2
PYRACANTHA BELLII		
2 1/4-in. pots	.....	.18
2 1/2-in. pots	.....	.20
PYRACANTHA YUNNANENSIS		
2 1/4-in. pots	.....	.16
TEUCRIUM CHAMAEDRYS		
2 1/4-in. pots	.....	.10
VIBURNUM TINUS		
2 1/4-in. pots	.....	.15
2 1/2-in. pots	.....	.17
ACER PALMATUM ATROPURPUREUM		
2 1/2-in. pots, seedlings	.....	.25
BERBERIS THUN. ATROPURPUREUM		
2 1/4-in. pots	.....	.15
2 1/2-in. pots	.....	.17
CORNUS FLORIDA		
6x8-in. seedlings	.....	.05
2 1/4-in. pots	.....	.12
2 1/2-in. pots	.....	.15
EUNYMYUS ALATUS COMPACTUS		
8x12-in. T.T. field-grown	.....	.30
18-in. T.T. field-grown	.....	.45
LONICERA FLAMING BEAUTY		
2 1/4-in. pots	.....	.15
SPIRAEA ANTHONY WATERER		
2 1/4-in. pots	.....	.10
T. G. OWEN & SON, INC. Columbus, Miss.		
MYSTERIOUS "DAWN REDWOOD"		
Newly discovered "living fossil" conifer, Metasequoia glyptostroboides. Hardy at Painesville, entirely pest-free.		
	Each	Each
2 to 15 in., transplants	\$1.00	\$0.90
1 1/2 to 3 ft., transplants	1.25	1.15
2 to 3 ft., transplants	1.65	1.50
Usual terms. Packing free for cash with order.		
THE COLE NURSERY CO.		
Since 1881	Painesville, O.	

ROOTED CUTTINGS FROM SAND

POTTED GRAFTS, 1-YR.

GRAFTED STOCK BEDED OUT
IN THE OPEN FOR 1 YEAR.

	100	1000
Ilex convexa	\$ 9.00	\$ 80.00
Ilex rotundifolia	9.00	80.00
Ilex hetzi	11.00	100.00
Juniperus pfitzeriana	11.00	100.00
Juniperus hetzi	11.00	100.00
Taxus andersonii	11.00	100.00
Taxus Adams capitata	15.00	125.00
Taxus cusp. capitata leaders	15.00	125.00
Taxus brownii	11.00	100.00
Taxus brevifolia	15.00	125.00
Taxus cuspidata	10.00	80.00
Taxus hicksii	10.00	80.00
Taxus cuspidata comp.	11.00	100.00
Taxus canadensis stricta	11.00	100.00
Taxus hatfieldii	11.00	100.00
Taxus hunnewelliana	11.00	100.00
Taxus ovata	11.00	100.00
Taxus intermedia	11.00	100.00
Taxus Moon's columnaris	15.00	125.00
Taxus vermeulenii	11.00	100.00
Taxus kelseyi	11.00	100.00
Taxus densiformis	15.00	125.00
Taxus repandens	15.00	125.00
Taxus thayeri	11.00	100.00
Taxus Halloran	15.00	125.00
Taxus henryi	15.00	125.00
Taxus wardii	15.00	125.00

	100	1000
Ilex convexa	\$20.00	\$180.00
Ilex rotundifolia	20.00	180.00
Ilex hetzi	20.00	180.00
Juniperus pfitzeriana	20.00	180.00
Juniperus hetzi	20.00	180.00
Taxus andersonii	17.50	150.00
Taxus cuspidata	17.50	150.00
Taxus brownii	17.50	150.00
Taxus hatfieldii	17.50	150.00
Taxus hunnewelliana	17.50	150.00
Taxus intermedia	17.50	150.00
Taxus vermeulenii	17.50	150.00
Taxus hicksii	17.50	150.00
Taxus canadensis stricta	17.50	150.00

	100	1000
Acer pal. atropurpureum	\$15.00	\$125.00
Abies concolor, 2-yr. seedlings	7.00	65.00
Abies douglasii, 2-yr. seedlings	4.00	35.00
Abies douglasii, 3-yr. seedlings	6.00	50.00
Abies fraseri, 2-yr. seedlings	7.00	50.00
Abies pectinata, 2-yr. seedlings	7.00	60.00
Biota orientalis, 2-yr. sdgls.	3.50	30.00

	100	1000
Cornus florida	6.00	50.00
1-yr. seedlings, No. 1	5.00	40.00
1-yr. seedlings, No. 2	4.00	30.00
1-yr. seedlings, No. 3	3.50	25.00
1-yr. seedlings, No. 4	3.00	20.00
2-yr. seedlings, No. 1	12.50	100.00
2-yr. seedlings, No. 2	10.00	90.00
2-yr. transpl., No. 1	15.00	125.00
kousa, 1-yr. seedlings	11.00	100.00

	100	1000
Euonymus alatus, seedlings	15.00	125.00
2-yr. transplants	15.00	125.00
alatus comp. seedlings	15.00	125.00
Ilex opaca, 1-yr. seedlings	6.00	50.00
2-yr. seedlings	11.00	100.00
Tsuga canadensis, 4 to 6 ins.	9.00	80.00
2-yr. transplants	16.00	150.00
4 to 9 ins., 3-yr. transplants	16.00	150.00
9 to 12 ins., 4-yr. transplants	27.50	250.00
sieboldii, 1-yr. seedlings	10.00	80.00
Picea, excelsa, 2-yr. seedlings	2.50	20.00
excelsa, 3-yr. seedlings	3.50	30.00
pungens, 2-yr. seedlings	3.50	30.00
pungens, 3-yr. seedlings	4.50	40.00
alba, 2-yr. seedlings	3.50	30.00
Pinus, austriaca, 2-yr. seedlings	8.00	70.00
austriaca, 3-yr. seedlings	8.00	70.00
densiflora, 2-yr. seedlings	6.00	50.00
michauxii, 2-yr. seedlings	5.50	50.00
michauxii, 3-yr. seedlings	6.50	60.00
resinosa, 2-yr. seedlings	6.00	50.00
strobus, 2-yr. seedlings	4.50	40.00
Taxus capitata, 2-yr. seedlings	10.00	90.00
capitata, 3-yr. transplants	15.00	135.00
Viburnum theiferrum	17.50	150.00

	100	1000
Full list of liners on request. Special prices on large orders.		

	100	1000
VERKADE'S NURSERIES, WAYNE, N. J.		

	100	1000
LINING-OUT STOCK		
Juniperus glauca hetzi, 3-yr.	\$25.00	
Ilex bullata, 2-yr.	25.00	
crenata rotundifolia, 2-yr.	25.00	
Taxus hatfieldii, upright, 2-yr.	25.00	
cuspidata, 2-yr.	25.00	
brownii, 2-yr.	25.00	
capitata, tip cuttings, 2-yr.	25.00	
Taxus cuspidata hyba., heavy, dense growers, superior to cusp., 2-yr.	25.00	

	100	1000
FOR NURSERY PICK UP ONLY		
Choice select Boyce Thompson Ilex opaca, 2 XX, 4-in. Mennepool \$1.00 each.		
All stock grown in open beds.		

	100	1000
SANDY LYNNE NURSERY		
462 Ave. A		
Horsham, Pa.		

	100	1000
POTTED LINERS		
5,200 Euonymus patens (8-leaf), 2 1/2-in. pots	\$0.10	
4,500 Euonymus radicans erectus, 2 1/2-in. pots	.11	
7,500 Euonymus radicans (3-yr.), 2 1/2-in. pots	.11	
11,000 Spiraea froebelii, 2 1/2-in. pots	.11	

	100	1000
2-YR. FIELD-GROWN		
2,750 Euonymus fortunei erectus	.22	
3,000 Euonymus radicans erectus	.22	
1,200 Euonymus patens	.20	
7,000 Euonymus patens (8-leaf)	.22	

	100	1000
BORK NURSERY		
Onarga, Ill.		

	Per 100	Per 1000
Acer palmatum atropurpureum dissectum	\$75.00	
Fagus sylvatica riversi	75.00	

	Per 100	Per 1000
ROOTED CUTTINGS, 1-YR., BEDDED		
Chamaecyparis cyano viridis, 3 to 4 ins.	\$15.00	
Euonymus patens, 4 to 6 ins.	10.00	\$ 90.00
Chamaecyparis filifera aurea, 4 to 6 ins.	15.00	
Ilex bullata, 4 to 6 ins.	10.00	
Ilex crenata, 5 to 8 ins.	10.00	
Ilex glabra, 4 to 6 ins.	10.00	
Thuja nigra, 5 to 8 ins.	10.00	90.00
Azalea hinodegiri, 2-yr., trans. (well-branched), 4 to 6 ins.	25.00	
(Transplanted in flats)		
Azalea Hino-Crimson	12.00	100.00
Azalea Hinodegiri	12.00	100.00
Azalea kaempferi Fedora	12.00	100.00
Euonymus japonicus	12.00	100.00
Pieris japonica	12.00	100.00
Pachysandra	4.00	35.00

	Per 100	Per 1000
1-YR. SEEDLINGS		
Acer palmatum	3.00	25.00
Cornus florida	5.00	40.00
Chinese Chestnut	10.00	
Fagus sylvatica	10.00	90.00
Taxus capitata	5.00	40.00

	Per 100	Per 1000
Azalea schlippenbachii (2-yr. transplants)	15.00	
Azalea mollis (2-yr. transp.)	15.00	
Balsam Fir, 3 to 5 ins.	6.00	50.00
Colorado Pinyon Pine (glauca), 4 to 8 ins.	8.00	70.00
Concolor Fir, 3 to 5 ins.	8.00	60.00
Cornus florida, 8 to 14 ins.	6.00	50.00
Douglas Fir (glauca), 4 to 8 ins.	6.00	45.00
Douglas Fir (viridis), (green), 4 to 8 ins.	6.00	45.00
Ilex crenata, 4 to 6 ins.	5.00	40.00
Leucothoe catesbaei (2-yr. transpl.), 6 to 10 ins.	30.00	
Picea excelsa, 4 to 6 ins.	3.50	25.00
Picea engelmannii, 3 to 6 ins.	6.00	50.00
Picea (Black Hills Spruce), 3 to 6 ins.	5.00	40.00
Picea pungens glauca, 3 to 5 ins.	4.00	35.00
Picea sitchensis (Sitka), 3 to 5 ins.	6.00	50.00
Picea White Spruce, 4 to 6 ins.	3.50	25.00
Pinus strobus, 4 to 6 ins.	3.50	25.00
Pinus sylvestris, 4 to 6 ins.	3.50	25.00
Pinus thunbergii, 4 to 6 ins.	4.00	30.00
Taxus capitata, 4 to 6 ins.	7.00	60.00
Thuja occidentalis, 4 to 6 ins.	5.00	40.00
Thuja orientalis, 4 to 6 ins.	3.50	30.00
Tsuga canadensis diversifolia, 3 to 4 ins.	6.00	50.00
Tsuga canadensis, 3 to 4 ins.	6.00	50.00

	Per 100	Per 1000
2-YR. TRANSPLANTS		
Douglas Fir, 5 to 8 ins.	6.00	50.00
Taxus capitata, 4 to 6 ins.	12.00	100.00
Tsuga caroliniana, 3 to 6 ins.	10.00	90.00
Tsuga canadensis, 4 to 7 ins.	8.00	70.00
Pinus strobus, 6 to 8 ins.	8.00	70.00

	Per 100	Per 1000
4-YR. TRANSPLANTS		
Picea excelsa, 6 to 8 ins.	6.00	50.00
Picea pungens glauca, 4 to 6 ins.	7.00	60.00
Tsuga canadensis, 8 to 10 ins.	10.00	90.00
Tsuga canadensis, 10 to 12 ins.	15.00	140.00
Tsuga canadensis, 12 to 14 ins.	20.00	190.00

	Per 100	Per 1000
VAN DINE NURSERY		
287 Berdan Ave.		
Wayne, Preakness, N. J.		

	Per 100	Per 1000
LINING-OUT STOCK		
No transplanting risk with this pot-grown stock, with good tops and well-established roots. Ready for field or container planting.		
Berberis mentorensis	\$0.18	
Cotoneaster pannosa	.22	
Euonymus Newport	.18	
Euonymus japonicus	.16	
Euonymus japonicus microphyllus	.18	
Euonymus japonicus Goldspot	.18	
Euonymus radicans coloratus	.18	
Euonymus radicans, upright (Sarcocoe)	.18	
Euonymus radicans minimus	.20	
Hedera helix	.15	
Hedera helix albo-variegata	.18	
Jasminum floridum	.16	
Ligustrum Vicary Golden	.15	
Lonicera purpurea	.15	
Lonicera heckrotti	.18	
Lonicera aureo-reticulata	.20	
Lonicera yunnanensis	.16	
Pyracantha lalandi	.16	
Pyracantha wyattii	.16	
Pyracantha pauciflora	.18	
Santolina chamaecyparissus	.15	
Teucrium chamaedrys (Germander)	.15	
Viburnum rhytidophyllum	.25	
Biota orientalis aurea nana	.20	
Biota orientalis aurea globosa	.20	
Biota orientalis bonita, upright	.18	
Biota orientalis excelsa	.18	
Juniperus pfitzeriana	.18	
Juniperus pfitzeriana glauca	.20	
Juniperus pfitzeriana plumosa	.20	
Juniperus hetzi	.16	
Juniper, Andorra	.16	
Juniper, Savin	.16	
Juniper, Savin Von Ehron	.20	
Juniperus scopulorum Blue Star	.20	
Juniperus squamata expansa	.25	

	Per 100	Per 1000
Priced per 100. Minimum 25 of one kind.		
No packing charge for cash with order.		

	Per 100	Per 1000
KENYONS NURSERY, DOVER, OKLA.		

	Per 100	Per 1000
Abies nobilis glauca	\$125.00	
Acer pal. atropurpureum	90.00	
Carpinus fastigiata	75.00	
Cornus florida flore-plena	60.00	
Cornus florida rubra	60.00	
Cornus florida rubra Proser	80.00	
Hamamelis brevipedata	100.00	
Hamamelis mollis	60.00	
Ilex Old Heavy Berry	150.00	
Magnolia, Waterlily	80.00	
Magnolia stellata	90.00	
Magnolia stellata rubra	90.00	
Magnolia soulangeana nigra	90.00	
Retinospora obtusa crispal	75.00	
Retinospora obtusa gracilis	75.00	
Retinospora obtusa nana gracilis	75.00	
Viburnum carlesii	65.00	
Viburnum burkwoodii	65.00	

	Per 100	Per 1000
ROOT GRAFTS		
Malus Almey	\$20.00	
Kwanan and Weeping Cherry	20.00	

	Per 100	Per 1000
IMPORT FROM HOLLAND IN THE SPRING.		
Fagus riversi, 18 to 24 ins.	\$200.00	
Fagus sylv. purp.-pendula, 18 to 24 ins.	250.00	

	Per 100	Per 1000
POT-GROWN GRAFTS, MAY SHIPMENT.		
Understocks are potted up during the early spring, carried over outside in frames during the summer, then grafted during the winter which furnishes the best results for planting.		

	Per 100	Per 1000
Abies nobilis glauca	\$100.00	
Abies pinapo glauca	100.00	
Acer pal. atropurpureum	75.00	
Acer dissectum	75.00	
Acer dissectum atropurpureum	75.00	
Carpinus betulus fastigiata	60.00	
Cedrus atlantica aurea	100.00	
Cedrus atlantica glauca	75.00	
Cornus florida rubra	60.00	
Cornus florida rubra Proser	80.00	
Cornus florida pendula	60.00	
Cornus florida welchii var.	65.00	
Cornus florida flore-plena	60.00	
Cornus florida rubra, root grafts	35.00	
Cornus kousa chinensis	60.00	
Cornus kousa speciosa	60.00	
Hamamelis mollis	60.00	
Fagus sylvatica riversi	60.00	
Fagus sylvatica pendula	60.00	
Fagus sylvatica heterophylla	60.00	
Fagus sylvatica fastigiata	60.00	
Fagus sylvatica tricolor	75.00	
Magnolia stellata	75.00	
Magnolia stellata rubra	75.00	
Magnolia stellata Waterlily	75.00	
Magnolia parviflora	75.00	
Magnolia yulan	75.00	
Magnolia cordata	75.00	
Picea moerheimi	100.00	
Picea pung. gl. hopei	125.00	
Pinus strobus pendula	60.00	
Pinus strobus nana	60.00	
Pinus strobus fastigiata	60.00	
Taxus capitata, 4 to 6 ins.	10.00	90.00
Pinus cembra	60.00	
Pinus watereri glauca	60.00	
Pinus Tanyosho	60.00	
Retinospora obtusa gracilis	50.00	
Retinospora obtusa gracilis nana	50.00	
Retinospora obtusa crispal	75.00	
Viburnum carlesii	60.00	
Viburnum judii	50.00	
Viburnum burkwoodii	50.00	

	Per 100	Per 1000
Special prices on large quantities		

	Per 100	Per 1000
VERKADE'S NURSERIES, WAYNE, N. J.		

Malus Almey	Per 100	\$20.00
Kwanan and Whipping Cherry		20.00

LINING-OUT STOCK—Continued

SPRING 1958	SPRING 1958	
LINING-OUT STOCK		
	Per 100	Per 1000
1,375 Acer ginnala (Amur Maple), 1-yr. seedlings, 5 to 9 ins.	\$ 7.00	\$ 60.00
1,350 Acer ginnala (Amur Maple), 1-yr. seedlings, 9 to 12 ins.	8.00	70.00
2,000 Acer palmatum atropurpureum, 1-yr. gr. beds, 4 to 9 ins.	90.00	850.00
1,500 Acer palmatum atropurpureum, 3-yr. TT, fr., 12 to 15 ins.	150.00	1400.00
9,000 Acer platanoides, 1-yr. seedlings, 4 to 6 ins.	5.00	40.00
19,000 Acer platanoides, 1-yr. seedlings, 6 to 9 ins.	6.00	50.00
11,000 Acer platanoides, 1-yr. seedlings, 9 to 12 ins.	7.00	60.00
5,000 Acer platanoides, 2-yr. T, fr., 18 to 24 ins.	15.00	140.00
4,500 Acer pseudoplatanus, 2-yr. T, fr.	15.00	140.00
12,000 Althaea, 1-yr. seedlings, 18 to 24 ins.	5.50	45.00
10,000 Azalea hinodegiri, 2-yr. T, beds, 4 to 6 ins.	50.00	450.00
5,000 Azalea hinodegiri, 3-yr. T, beds, 6 to 9 ins.	65.00	600.00
40,000 Berberis thunbergii, 2-yr. T, fr., 9 to 12 ins. heavy	8.50	75.00
68,000 Berberis thunbergii atropurpurea, 2-yr. T, fr., 9 to 12 ins. heavy	9.50	85.00
7,000 Cydonia japonica, 2-yr. T, fr., 12 to 18 ins.	10.00	95.00
7,000 Euonymus vegetus, 2-yr. T, fr.	30.00	250.00
30,000 Fagus sylvatica, 1-yr. seedlings, 4 to 6 ins.	8.00	70.00
21,000 Fagus sylvatica, 1-yr. seedlings, 6 to 9 ins.	9.50	85.00
1,000 Hydrangea P.G., 2-yr. T, fr., 12 to 15 ins.	30.00	250.00
2,400 Sorbus aucuparia, 1-yr. seedlings, 9 to 12 ins.	7.00	60.00
2,700 Sorbus aucuparia, 2-yr. T, fr., 18 to 24 ins.	20.00	180.00
3,700 Taxus thayeri, 3-yr. T, beds	45.00	400.00
3,300 Tilia cordata, 1-yr. seedlings, 4 to 6 ins.	8.50	80.00
1,600 Tilia cordata, 1-yr. seedlings, 12 to 15 ins.	10.00	95.00
5,500 Viburnum dilatatum, 1-yr. seedlings, 9 to 12 ins.	7.00	60.00
2,000 Weigela vanickei, 2-yr. 18 to 24 ins.	35.00	300.00
4,500 Wistaria sinensis, 1-yr. seedlings	5.50	45.00
10,000 Zelkova serrata (subs. for American Elm), 2-yr. T, fr., 12 to 15 ins. (not subject to Dutch Elm disease)	20.00	180.00
Packing extra.		
BOULEVARD NURSERIES Newport, R. I.		

LINING-OUT STOCK

Following is a partial list of the many thousands of our high-quality liners. We have the finest liners that can be produced and invite your trial order.

	Per 100
Feljoa sellowiana (Pineapple Guava)	\$15.00
Gardenia August Beauty	
Gardenia fortunei	
Gardenia Mystry	
8 to 12 ins.	12.50
12 to 18 ins.	15.00
Ilex crenata rotundifolia	
6 to 8 ins.	17.50
8 to 12 ins.	20.00
Ilex glabra	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
Ilex opaca fosteri	
6 to 8 ins.	12.50
8 to 12 ins.	17.50
Juniperus chinensis pfitzeriana	
6 to 8 ins.	15.00
8 to 12 ins.	20.00
Juniperus depressa plumosa (Andorra)	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
Lonicera yunnanensis (low Honeysuckle)	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
Nandina domestica	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
12 to 18 ins.	20.00
Osmanthus fragrans (Sweet Olive)	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
Magnolia grandiflora	
6 to 8 ins.	15.00
8 to 12 ins. transplanted	20.00

We grow the finest container-grown stock in the South and have a much better selection of stock to select from. Write for our wholesale prices of all items.

BLACKWELL NURSERIES
Semmes, Ala.
WHOLESALE ONLY

LINING-OUT TREES

	100	1000
Birch, European White	\$85.00	
4 to 5 ft. branched, T.		
Dogwood, white; 6 to 12 ins.		
seedlings	4.00	\$35.00
12 to 18 ins. seedlings	5.50	50.00
Elm, Chinese		
12 to 18 ins. 1-yr. seedlings	2.50	20.00
18 to 24 ins. 1-yr. seedlings	3.50	30.00
3 to 4 ft. 2-yr. seedlings	7.50	65.00
4 to 5 ft. 2-yr. seedlings	12.00	100.00
Maple, Faassen's Red-leaved,		
5 to 6 ft. whips, T.	150.00	
Maple, Norway, 4 to 5 ft.		
whips, T.	80.00	
5 to 6 ft. whips, T.	110.00	
Maple, Schwedler's		
5 to 6 ft. partly branched, T.	200.00	
Maple, Sugar, 4 to 5 ft.		
branched, T.	175.00	
5 to 6 ft. branched, T.	225.00	
Maple, Silver, 12 to 18 ins.		
1-yr. seedlings	3.50	30.00
18 to 24 ins. 1-yr. seedlings	4.50	40.00
2 to 3 ft. 1-yr. seedlings	6.50	60.00
3 to 4 ft. 2-yr. seedlings	8.00	75.00
4 to 5 ft. 2-yr. seedlings	9.00	85.00
5 to 6 ft. partly branched,		
2-yr. seedlings	15.00	
Poplar, Bolleana		
2 to 3 ft. cuttings	20.00	
3 to 4 ft. cuttings	30.00	
Poplar, Lombardy		
2 to 3 ft. cuttings	7.50	65.00
3 to 4 ft. cuttings	10.00	85.00
4 to 5 ft. cuttings	15.00	130.00
Willow, Babylon		
2 to 3 ft. cuttings	10.00	85.00
3 to 4 ft. cuttings	15.00	130.00
4 to 5 ft. cuttings	25.00	
Willows, Thurlow and Golden		
Weeping, 3 to 4 ft. cuttings	15.00	
4 to 5 ft. cuttings	25.00	

WAYNESBORO NURSERIES

Waynesboro, Va.

EVERGREENS

Andorra Juniper, 6 to 8 ins. bare-root	\$0.05
Andorra Juniper, 8 to 10 ins. bands	14½
Blue Hetz Juniper, 6 to 8 ins.	
bare-root	.06
Pfitzer Juniper, 6 to 8 ins. bare-root	.08
Pfitzer Juniper, 8 to 10 ins. bands	14½
Von Ehren Juniper, 6 to 8 ins.	
bare-root	.06
Spreading Jap. Yew, 6 to 8 ins. bands	.20
DECIDUOUS, BARE-ROOT	
Blue Spiraea (Caryocarpus),	
8 to 12 ins.	.04
Golden Ninebark (Physocarpus),	
4 to 6 ins.	.04
Forsythia Arnold's Giant, 4 to 6 ins.	.04
Forsythia Lynwood Gold, 6 to 10 ins.	.05
Forsythia Spring Glory, 6 to 10 ins.	.04
Honeysuckle vine, hecrotti or Gold	
Flame, everblooming, 6 to 10 ins.	.05
Privet, Chinese, Wayside Gardens	
strain; 8 to 12 ins.	.04
Privet, Regels, 6 to 10 ins.	.04
Privet Golden Vicary, all yellow;	
4 to 6 ins.	.06
Spiraea froebeli, 4 to 5 ins.	.04

BROADLEAFS

Euonymus carrieri, 6 to 10 ins.	.04
Euonymus patens Flagpole, small-leaved; 6 to 10 ins.	.04
Euonymus patens Owen, small-leaved; 6 to 10 ins.	.04
Euonymus patens, large-leaved; 6 to 10 ins.	.04
Euonymus patens Newport, medium-leaved; 6 to 10 ins.	.04
Euonymus patens Rosehill, medium-leaved; 6 to 10 ins.	.04
Honeysuckle vine Gold Net, variegated-leaf; 5 to 6 ins.	.06
Pyracantha islandi, 5 to 6 ins.	.05
Pyracantha Kusan, 5 to 6 ins.	.05
Pyracantha Kusan, 5 to 6 ins.	.05
Less than 300 total order, add 2c per plant.	

MEININCH GREENHOUSES

St. Joseph, Mo.

LINING-OUT STOCK

	Bare-root, each
100 Enkianthus campanulatus,	
6 to 9 ins. heavy	\$0.35
500 9 to 12 ins. heavy	.45
300 12 to 15 ins. heavy	.70
400 Ilex crenata convexa, 4 to 6 ins. TT	.32
400 Leucothoe catesbaei, 2 to 4 ins. TT	.30
400 Leucothoe catesbaei, 4 to 6 ins. TT	.40
200 Pyracantha islandi, 9 to 12 ins. TT	.60
150 Viburnum tomentosum, 6 to 12, TT	.30
100 Viburnum tomentosum, 12 to 15, TT	.35
POTTED LINING-OUT STOCK	
500 Azalea Hino-Crimson	.22
500 Clethra alnifolia rosea	.25
200 Cotoneaster Liaking	.25
600 Ilex crenata convexa	.20
500 Ilex glabra	.22
500 Pyracantha Kusan (new)	.25
500 Pyracantha islandi	.22

ROOTED CUTTINGS

1500 Ilex glabra	.08
2000 Taxus hicksii, 8 to 9 ins.	.09
1000 Taxus hicksii, 6 to 8 ins.	.08

Packing at cost.

THE CAMP CO. NURSERIES
H. V. Lawrence, Inc.
Falmouth, Mass.

LINING-OUT STOCK

	Each	100	1000
Acer palmatum atropurpureum (Red Japanese Maple), 12 to 18 ins. strong 2-yr. grafts	\$1.75	\$150	
Cornus florida rubra (red-flowering Dogwood), 1-yr. strong grafts, 18 to 24 ins.	.75	.70	
Cotoneaster divaricata, 2-yr. transplants, branched, 12 to 18 ins.	.30	.25	
Exochorda wilsoni (Pearlbush), 2-yr. grafts, 18 to 24 ins. from field rows	.75	.60	
Forsythia Spring Glory, 1-yr. transplants, softwood cuttings, 18 to 24 ins. well-branched, mail order size	.18	.15	
Juniperus hetzel, 2-yr. transplants	.40	.35	
Pachistima canbyi, 2-yr. transplants, 4 to 6 ins.	.50	.45	
Prunus tomentosum (Nanking Cherry), strong 1-yr. seedlings	.10	.07½	
Pseudotsuga taxifolia glauca (Blue Douglas Fir), 4-yr. transplants	.40	.35	
Taxus capitata, strong 2-yr. selected seedlings, 4 to 6 ins.	.15	.12½	
Taxus thayera, 2-yr. transplants	.45	.40	
Viburnum carlesii, 2-yr. seedlings, 4 to 6 ins.	.15	.12½	
Viburnum carlesii, 2-yr. seedlings, 6 to 8 ins.	.20	.17½	
Viburnum carlesii, 2-yr. seedlings, 8 to 12 ins.	.30	.25	
Viburnum transplants, softwood cuttings	.25	.20	
Viburnum wrightii, 2-yr. grafts, field rows, 10 to 18 ins.	.75	.60	

C. HOOGENDOORN NURSERIES
Turner Rd. Newport, R. I.

LINING-OUT STOCK, SPRING 1958

Ilex glabra, heavy, 2-yr. transplants	\$4.00 per 100, \$350.00 per 1000. (Special, 2000 for \$565.00.)
Thuja occidentalis nigra, 2-yr. T, fr.	\$40.00 per 100, \$350.00 per 1000.
Pieris japonica (Japanese Andromeda), strong rooted seedlings, 1 to 3 ins.	\$6.00 per 100, \$50.00 per 1000; also 50,000 2-yr. transplants, 6 to 9 ins., \$30.00 per 100, \$250.00 per 1000.
Ilex opaca St. Mary, selected, heavy berry, deep orange-red color; well-rooted, grown from cuttings, \$65.00 per 100, \$350.00 per 1000.	
Ilex cornuta burfordi, 2-in. bands, heavy roots, cutting-grown, \$17.00 per 100, \$150.00 per 1000.	
Azalea Hinodegiri, liners, transplants, in 2-in. bands, \$15.00 per 100, \$125.00 per 1000.	
Dogwood, pink; 2-yr. grafts, 12 to 18 ins., \$150.00 per 100.	
Dogwood, pink; cuttings, potted and banded, 2-in., \$25.00 per 100, \$75.00 per 1000.	
Magnolia stellata, 2-in. plant bands, cutting-grown, \$65.00 per 100.	

ROOTED CUTTINGS

	Per 100	Per 1000
Taxus cuspidata	\$12.00	\$100.00
Taxus hicksii	12.00	100.00
Lawson Blue Cypress	12.00	100.00
Thuja plicata elegantissima	12.00	100.00
Rhododendron, hybrid grafts	\$75.00 per 100	
Assortment as listed: Dr. Drechselburg, Caractacus, Boule de Neige, roseum elegans, America, Charles Dickens, catawbiense album.		
Sciadopitys verticillata, 2-in. pots, \$25.00 per 100 (sold only in lots of 500).		

CEDARHURST NURSERIES, INC.
3044 Pawtucket Ave. East Providence, R. I.

FIELD-GROWN LINERS

	Per 100
All twice transplanted.	
Golden Juniper, 9 to 12 ins. XX	\$40.00
Thuja Woodwardi, 9 to 12 ins. XX	40.00
elegantissima, 8 to 10 ins. XX	40.00
Ilex rotundifolia, 9 to 12 ins. XX	45.00
convexa, 8 to 10 ins. XX	35.00

TAXUS, 3 TIMES TRANSPLANTED

European White Birch (seedlings)	
3 to 4 ft.	30.00
4 to 5 ft.	45.00
5 to 6 ft.	70.00

Cash with order earns free packing.

DAMASCUS NURSERIES

Damascus, O.

LINING-OUT STOCK

	Per 100	Per 1000
American Holly, 6 to 12 ins.	\$ 8.00	\$70.00
American Holly, 12 to 18 ins.	10.00	90.00
Yaupon Holly, 6 to 12 ins.	5.00	40.00
Yaupon Holly, 12 to 18 ins.	7.00	60.00
Cherry Laurel, 6 to 12 ins.	3.00	25.00
Cherry Laurel, 18 to 24 ins.	8.00	70.00
Long-leaved Pines, 2-yr.	3.00	20.00
Live Oaks, 8 to 18 ins.	4.00	35.00
Magnolia grandiflora, 4 to 8 ins.	5.00	40.00
Magnolia grandiflora, 2 to 4 ins.	4.00	35.00

L. H. BUTTER NURSERY

Box 205 Forest Hill, La.

LINING-OUT STOCK

Blota, Ilex, Juniper, Taxus, Thuja, Retinospora and Broad-leaved, rooted cuttings and transplants. List upon request.	
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MIST-O-GATION, INC.

Middletown, Del.

LINERS OF THE BETTER KINDS

Write for price list.

GULF STREAM NURSERY, INC.

Wachapreague, Va.

MAPLES—Continued

NORWAY MAPLE		
Straight trunks, fine heads. Very fibrous roots.		
6 to 8 ft.	10-49	50-250
8 to 10 ft. 1 to 1 1/4-in.	3.00	\$2.50
9 to 11 ft. 1 1/4 to 1 3/4-in.	4.40	3.50
10 to 12 ft. 1 3/4 to 2-in.	6.00	5.00
11 to 13 ft. 2 to 2 1/4-in.	8.80	7.00
PRINCETON NURSERIES		
Princeton, N. J.		

MAPLES
Sugar and Norway Maples, 8 to 10 and 10 to 12 ft. Nice trees priced right. Send for spring list of specimen ornamentals, Azaleas and liners.

THE TANKARD NURSERIES
Exmore, Va.

COLLECTED ACER
RUBRUM AND SACCHARUM
from whips to 4-in. caliper.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

SUGAR MAPLE
Special, 8 to 10-ft. grade, averaging 1-in. caliper, \$37.50 per 100.
WAYNESBORO NURSERIES, INC.
Waynesboro, Va.

MAPLES, HARD AND SOFT
SEND FOR NEW LIST
NAGLE'S NURSERY, DECATUR, MICH.

Acers, saccharum and rubrum, root-pruned, field specimens, 2-in. to 12-in. caliper.
R. H. Rogers Nursery, Cooperstown, N. Y.

PACHYSANDRAS

PACHYSANDRAS
1-yr.-old, large-frame plants.
Satisfaction guaranteed.
Large quantity.
\$5.50 per 100, \$43.00 per 1000.
\$40.00 per 5000.
BRUNDAGE & GUTHRIE
123 Franklin St. Tarrytown, N. Y.

PACHYSANDRA TERMINALIS
Per 100 Per 1000
1-yr. plants\$5.00 \$42.50
2 1/4-in., pot-grown plants10.50 95.00
HANSEN BROS. NURSERIES, INC.
1268 Montgomery Ave. Narberth, Pa.

Pachysandras, strong plants, grown in soil frames with light shade. First-class stock.
\$45.00 per 1000; \$42.50 per 1000 for 5000 or more, including good packing.
Peekskill Nursery, Shrub Oak, N. Y.

PACHYSANDRAS
Strong rooted cuttings, \$4.25 per 100, \$40.00 per 1000.
DUNWOODIE NURSERIES
6 Smart Ave. Yonkers, N. Y.

PACHYSANDRA TERMINALIS
1-yr., field-grown, \$65.00 per 1000.
Rooted cuttings, \$4.25 per 100.
HILLCREST GREENHOUSES
Box 468 Franklin, Pa.

PACHYSANDRAS
Out of 2-in. pots, \$12.00 per 100, \$100.00 per 1000.
F.O.B. Elizabeth, N. J.
DELAWARE VALLEY NURSERY
948 N. Broad St. Elizabeth, N. J.

Turn Stock into Dollars
by Listing It in the Classified Ads
of the American Nurseryman.

PEONIES

PEONIES
Strong, healthy, 3 to 6-eye divisions.
30c each; 100, 25c each.
500 Couronne d'Or, white
100 Faust, lilac-white
550 Edulis Superba, rose-pink
75 Etta, hydrangea-pink
100 Karl Rosefield, dark crimson
100 Daubenton, pink
100 Aurore, lilac-white
100 Duke of Clarence, vivid rose
500 General Bertrand, red
500 Venus, light pink
500 Queen Victoria, shell-pink
500 Mme. de Verneville, white
PARKER'S PEONY FARM
Fayetteville, N. Y.

2-YR. FIELD-GROWN PEONIES
Whole clumps, not divided; 6 eyes and up.
\$75.00 per 100, \$700.00 per 1000; divisions,
3 to 5 eyes, \$40.00 per 100, \$350.00 per 1000,
following varieties:
Adolph Rouseau, Albert Crousse, Baroness
Schroeder, Duch. de Nemours, Edulis Su-
perba, Felix Crousse, Festiva Maxima, Gen.
McMahon, Karl Rosefield, Lady Alex. Duff,
Marie Lemoine, Mons. Jules Ellis, Reine Hor-
tense, Sarah Bernhardt.
VERKADE'S NURSERIES, Wayne, N. J.

GRAFTED TREE PEONIES
Red, white, pink, purple; 1-yr., \$10.00 per 10;
2-yr., \$15.00 per 10. A yellow Tree Peony
for \$2.95 with each order. Double red Fern-
leaved Peonies, \$18.50 per 10.
ATHA GARDENS, WEST LIBERTY, O.

PHLOX

PHLOX SUBULATA
(Creeping Phlox)

An excellent choice of varieties.
Freshly dug. Prompt shipment prepaid by us.

Alba, pure white
Astro, deep orchid-rose
Blue Hillia, attractive medium blue
Butterfly, lilac bluish, showy purple eye
Crimson Beauty, brilliant cyclamen-red
Sensation, bright pink with red eye
Red Wing, large glowing red flowers

Transplants, \$3.50 per 100, \$30.00 per 1000.
Liners, \$5.00 per 100, \$45.00 per 1000, prepaid.

250 or more of one variety at 1000 rate.
All transportation charges prepaid by us.
Careful packing and each variety labeled.
Terms: Cash with order.

TANGLEWOOD FARM

P. O. Box 336-N Phone 1060 Clinton, S. C.

PHLOX SUBULATA

Healthy, undivided field-grown clumps
available now. 15 varieties to choose from.
\$12.00 per 100. When buying from "Walters"
you not only get the best in quality, but
our experience in handling and shipping
"Moss Phlox" is actually a free bonus on
your purchase. "America's largest grower of
Moss Phlox."

WALTERS GARDENS
Route 2 Zeeland, Mich.

PIERIS

PIERIS JAPONICA

SPRING CHOICE LINERS 1958
8 to 12 ins., field rows, 3-yr., TTT...\$40 \$375
6 to 8 ins., peat bed, 2-yr., TT..... 30 275
4 to 6 ins., peat bed, 2-yr., TT..... 20 175
No packing charges.
ECKHART NURSERIES
16 Toppa Blvd. Newport, R. I.

PIERIS JAPONICA (ANDROMEDA)
Per 100 Per 1000
4-yr., TT, 8 to 12 ins.\$40.00 \$350.00
4-yr., TT, 6 to 8 ins. 30.00 250.00
PETER BROWER'S NURSERIES
24 Lester St. New London, Conn.

PIERIS JAPONICA (ANDROMEDA)
Per 100 Per 1000
1-yr., T, 2 to 3 ins.\$8.00 \$75.00
PLANE VIEW NURSERY
West Main Rd. Newport, R. I.

PRIVET

Thousands of Amur River North Privet.
Per 100 Per 1000
18 to 24 ins.\$1.00 \$15.00
2 to 3 ft. 4.00 30.00
3 to 4 ft. 6.00 40.00
Immediate shipment. Satisfaction guaran-
teed. Robinson Nursery Co., Greenville, Ga.

PYRACANTHAS

PYRACANTHA LINERS
Both red and yellow berries.
2 1/2-in. pots.
\$15.00 per 100, \$120.00 per 1000.
Ask for price list on other lining-out stock
and finished material.

WAYNESBORO NURSERIES
Waynesboro, Va.

PYRACANTHAS
Pyracantha coccinea lalandi and Pyracan-
tha formosana, from 2 1/2-in. pots. Ready for
1-gal. cans or field planting, \$17.50 per 100,
\$150.00 per 1000.

BLACKWELL NURSERIES
Semmes, Ala.

RHODODENDRONS

Rhododendron roseum elegans, strong,
sturdy, well-branched.
15 to 18 ins.\$2.00
18 to 21 ins. 2.25
21 to 24 ins. 2.75
24 ins. up 3.25

Budded plants, 50c extra.
Phone STERLING 3-0924 after 6 P.M.
Marguerite Nursery, Cuba Hill Rd. and
Pulaski Rd., Greenlawn, L. I., N. Y.

ALL RED 1-YR. GRAFTS
Imported by air, carefully re-established
with a full root system. Ready May 1, 1958.
AMERICA, DR. DRESSELHUYTS, E. S.
RAND, IGNATIUS SARGENT, JOHN WAL-
TER, NOVA ZEMBLA.

\$125.00 per 100.
Ask for our new list.
J. S. WELLS NURSERY, INC.
P. O. Box 141 Red Bank, N. J.

RHODODENDRONS
HYBRID RHODODENDRONS
Landscape sizes.
Different colors.
PARMENTIER'S ROSES
Grady St. Bayport, L. I., N. Y.
Phone Bayport 4-0811

RHODODENDRONS

Named hybrids. Own-root.

RED VARIETIES
Gen. Eisenhower
(new)
*Giganteum
*Lady Clemont

*English roseum
*Roseum elegans
*Roseum superbum

*Parsons gloriosum
*Purple and Lavender Varieties
*Catawbiense Bour-
sault

*Catawbiense grandif-
lorum

*Albun elegans
*Albun novum
*Boule de Neige

Strong rooted cuttings from flats.
Red varieties, \$75.00 per 100.
Other colors, \$60.00 per 100.

Starred varieties (*) also available in fine
plants, 2 years in the field.
Red varieties, \$140.00 per 100.
Other colors, \$120.00 per 100.

All F.O.B. Rutherford, subject to prior
sale. Packing at cost. Order today while
selections are complete.

BOBBINK NURSERIES, INC.
East Rutherford, N. J.

STRONG CUTTINGS
Now rooted and flattened 30 to a large flat
will grow on and be ready for shipment as
first-class liners May 1.

Group 1: Albun elegans, cat. grandiflorum,
roseum superbum, roseum elegans.

Group 2: Cat. albun, candidissimum, Eng-
lis roseum, luciferum, purpureum elegans.

Group 3: America, Cynara, caracazum,
Chas. Bagley, F. D. Godman, Ignatius Sar-
gent, Kate Waterer, Prof. Bettex, Prof.
Rutgers.

Group 1, \$65.00 per 100.
Group 2, \$80.00 per 100.
Group 3, \$100.00 per 100.

Ask for our new list of Rhododendrons
Azaleas and Ilex

JAMES S. WELLS NURSERY, INC.
P. O. Box 141 Red Bank, N. J.

SELL OUT AND BLOCK CLEARANCE
Best hardy red varieties.

1000 3-yr. GRAFTED HYBRIDS, cut back,
heavy rooted, 12 to 15-in. liners, \$1.90 each,
per 100. Entire block, \$175.00.

400 Dr. Dresselhuys, 24 to 36 ins.,
\$4.50 each. Entire block, \$1200.00.

75 Boursault, 3 to 4 ft.,
\$5.50 each. Block, \$375.00.

500 2-YR. OWN-ROOT LINERS
America, Boursault, \$1.50 each.

160 sheared Canadian Hemlock,
2 to 5 ft., block, \$480.00.

80 specimen Mountain Laurel,
Clumps, 2 1/2 to 4 ft., block, \$300.00.

WINDY HILL NURSERIES
Wood St. Mercury 5-2744 Saltsburg, Pa.

FAMOUS DEXTER
RARE RHODODENDRON FORTUNEI

Hardy hybrid seedlings of the finest col-
lection north of Boston. Many clear pinks,
ruffled, some fragrant.

Luffy-Pots, 3-in., \$75.00 per 100; 2 1/2-in.,
\$40.00. Trial, 25 for \$10.00. Shipment any
time.

NORTH SHORE GARDENS
13 Spring St. Ipswich, Mass.

100,000 hybrid Rhododendrons, liners and
landscape, named varieties, hardy; red, blue,
yellow, black, white; fragrant. 500 varieties,
ready now. Kordus Nursery, Deer Park Ave.
R. D. 4, Box 152, Huntington, N. Y.

RHODODENDRON MAXIMUM
Nursery-grown and collected, 5 to 7 ft.
high. Well-shaped, symmetrical plants.

CURTIS NURSERIES, INC.
Callicoon, N. Y.

ROSEBUSHES

MINIATURE ROSES

Beautiful little darlings, like miniature
Hybrid Teas; seldom over 10 ins. tall. The
plants we sell are own-root from 2 1/2-in. pots.

Variety Per 10 Per 100

Centennial Miss (pat. 1301),
crimson\$5.00 \$45.00

Oakington Ruby, red 4.00 35.00

Pink Joy (pat. 1378) 4.50 40.00

Rosa Rouletti, pink 4.00 35.00

Frosty (pat. 1412), white 5.00 45.00

Pixie (pat. 408), white 4.50 40.00

Jackie, yellow 6.00 45.00

SPRING HILL NURSERIES CO.
Dept. AN-5 Tipp City, O.

2-YR. FIELD-GROWN BUSHES
IRRIGATED, CULTIVATED, FERTILIZED
AND DUSTED REGULARLY

BARE-ROOT, F.O.B. TYLER

100 to 499 500 to 1000

No. 135c each No. 132 1/2c each

No. 1 1/227c each No. 1 1/225c each

No. 220c each No. 218c each

Individually wrapped in attractive bags,
picture label, paraffin dipped, 10c per bush
extra. Package of 3 No. 2, 75c per package.

No packing charge on 100 or more plants.

MALONE NURSERY
502 S. Broadway Tyler, Tex.

ROSES

3-yr. field-grown, state inspected Rosebushes for immediate or later shipment. Tied in bundles of 10 of a grade and variety. Terms: Cash, or 25 per cent cash and balance C.O.D. Packing free.

Priced each, F.O.B. Lindale.	
100 or more	300 or more
No. 1 grade, 35c	No. 1 grade, 32c
No. 1 1/2 grade, 30c	No. 1 1/2 grade, 27c
No. 2 grade, 23c	No. 2 grade, 20c
RED	
Better Times	Socur Therese
*E. G. Hill	Golden Charm
*Night	Luxembourg
Red Radiance	Yellow Tailsman
Ami Quinard	Eclipse
Etoile de Hollande	Golden Dawn
*Syracuse	POLYANTHA AND
Poinsettia	FLORIBUNDA
Crimson Glory	Ideal
PINK	Golden Salmon
Pink Radiance	Else Poulsen
*The Doctor	Red Ripples
Mrs. Chas. Bell	Floradora
Bracecliff	Mrs. R. M. Finch
Editor McFarland	Eblouissant
Columbia	Katherine Zelmet
Shell Radiance	Cecile Brunner
Picture	CLIMBERS
Paul Neyron	Blaze
WHITE	Paul's Scarlet
K. A. Viktoria	Red Radiance
Caledonia	Pink Radiance
Frau Karl Druschki	White Am. Beauty
White Am. Beauty	Poinsettia
Koenigin Luise	Red Tailsman
TWO-TONE	Golden Charm
Pres. Hoover	May Hart
Tailsman	Yellow Tailsman
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Nellie Perkins	

*Denotes 1 1/2 and 2 only.

WELLS BROS. NURSERY

J. Wells, Owner

Box 625 Phone 12F4W Lindale, Tex.

ROSEBUSHES
2-YR. PLANTS.

Grown, graded and packed to perfection. 546 varieties and 12 different types to choose from.

WRITE TODAY FOR PRICES AND YOUR REQUIREMENTS NOW!

ROSEMONT NURSERIES

D. L. Thompson, Owner

Dent, AN Tyler, Tex.

2-YR. FIELD-GROWN ROSEBUSHES

Ready for immediate shipment. Bare-root or processed and all graded heavy. We prepay all shipments. Try us one time and we'll have another customer. (Bare-root in Rosebush liners.) Also have Concord Grape, Althaea, and fruit trees at bargains. Write us about your requirements.

ROSELAWN NURSERIES

Box 295 Winnboro, Tex.

THE SEASON'S BEST DEAL

See for yourself

BY

sending for our 1957-58 trade list. WE STILL OFFER YOU A CHOICE OF BARE-ROOT AND PREPACKAGED, PATENT AND STANDARD ROSES. NEW LONDON ROSES

"The Rose Nursery"

P. O. Box 876 Overton, Tex.

WESTERN-GROWN ROSEBUSHES

Harvest time has started now. Full assortment of varieties and grades. Also bookkeeping for individuals wrapped with colored pictures for counter sales.

Write for descriptive price list with full assortment of Rosebushes, shrubs, fruit trees and vines.

ROME NURSERY GREENHOUSES, INC.

Box 181 Edwardsville, Ill.

ROSEBUSHES

A WIDE ASSORTMENT OF REASONABLY PRICED HIGH-QUALITY ROSEBUSHES WITH FAST, COURTEOUS SERVICE IS WHAT YOU GET AT MARTIN'S ROSE NURSERY

P. O. Box 155 Arp, Tex.

Phone UL-92191

(A copy of our 1957-58 price list will be mailed to you upon request.)

OUR OWN FIELD-GROWN ROSEBUSHES

For early winter. Standard varieties, No. 1, 50c; No. 1 1/2, 40c. Patented varieties available at fixed prices. Budded on seedlings with a fine root system. Ideal for potting or home planting.

DANEGGER'S HI-WAY NURSERY, INC.

Box 336 Milford, Del.

ROSES

Hybrid Teas, climbers, polyanthas and floribundas. Excellent quality, priced reasonably. List of varieties free on request.

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NORTHERN-GROWN ROSES

Extra strong. Standard and patented varieties. Hybrid Teas, grandifloras and climbing. No. 1 plants.

Circular prices mailed on request.

D & D ROSE GARDENS, Eatontown, N. J.

SEEDS

TREE AND SHRUB SEEDS

Scotch Pines (including French Auvergne), Red and White Pine, Red, White and Black Spruce, Fraser, Colorado and Douglas Fir, Balsam, Yews, wild Apple seed (Europe) and miscellaneous tree and shrub seeds. Write for list.

FORESTRY ASSOCIATES

P. O. Box 1069 Allentown, Pa.

COLORADO EASTERN SLOPE

EVERGREEN SEED, 1957 CROP

Blue Spruce, \$7.20 per lb.

Concolor Fir, \$2.25 per lb.

Douglas Fir, \$5.50 per lb.

All seed shipped F.O.B. Silver Cliff.

All seed subject to prior sale.

ZENTZ SEED CO.

Silver Cliff, Colo.

JUNIPER SEED

Juniperus virginiana (Platt, Neb. Red Cedar).

Juniperus scopulorum (S. D.). This seed will cut 95 per cent.

\$4.00 per lb.; \$3.25 in 25-lb. lot up.

Juniperus virginiana (Mo.), \$3.00 per lb.; \$2.50 in 10-lb. lot up.

FORESTRY SEED SERVICE

Cuba, Kan.

EVERGREEN SEEDS. FREE LIST.

Available in 50c tr. pkts. or by lb.

MELLINGER'S, INC.

Box AN North Lima, O.

SHRUBS AND TREES

LARGE LANDSCAPE MATERIAL

14 Amelanchier, 15 to 18 ft.

5 Biota aurea conspicua, 12 to 14 ft.

25 Biota aurea nana, 2 1/2 to 3 ft.

11 Biota elegantissima, 10 to 12 ft.

165 Cercis canadensis, 10 to 16 ft.

90 Chamaecyparis plumosa aurea, 4 to 8 ft.

30 Chamaecyparis pisifera aurea, 8 to 12 ft.

10 Chamaecyparis filifera aurea, 7 to 8 ft.

24 Chamaecyparis obtusa crippis, 9 to 12 ft.

60 Chamaecyparis squarrosa veitchi, 10 to 14 ft.

15 Chamaecyparis nootkatensis pendula, 8 to 9 ft.

25 Crataegus phaenopyrum (cordata), 15 to 18 ft.

4000 Cornus florida, 7 to 20 ft.

8 Halesia tetraepala, 12 to 15 ft.

11 Juniperus canaertii, 18 to 20 ft.

18 Juniperus depressa plumosa, 6 to 8 ft.

10 Juniperus hetzi, 7 to 8 ft. spread

6 Juniperus pfitzeriana compacta, 4 to 5 ft.

20 Juniperus virginiana glauca, 14 to 18 ft.

12 Magnolia, mixed; 9 to 12 ft.

5 Picea glauca densata, 14 to 18 ft.

7 Picea koyamae, 14 to 16 ft.

30 Picea pungens, 14 to 20 ft.

30 Pinus mughus, 4 to 10 ft. spread

6 Pinus strobus, 15 to 16 ft.

16 Pinus thunbergii, 12 to 14 ft.

15 Rhododendron maximum, 6 to 8 ft., large clumps

10 Rhododendron carolinianum, 4 ft. clumps

85 Spiraea vanhouttei, 5 to 6 ft.

600 Syringa hybrid seedlings, 6 to 9 ft.

560 Taxus capitata, 4 to 7 ft.

30 Taxus browni, 5 to 6 ft.

325 Taxus hispida, 5 to 8 ft.

9 Taxus repandens, 6 to 7 ft. spread

1240 Viburnum carlesii, 2 to 5 ft.

SHADE TREES

260 Pin Oaks, 3 to 6-in. caliper

52 Sweet Gum, 4 to 7-in. caliper

45 European Beech, 3 to 5-in. caliper

60 Red Oak, 4 to 7-in. caliper

12 Sugar Maple, 3 to 7-in. caliper

GEORGE F. BLOOMER NURSERY

Route 69 Flemington, N. J.

WHITE OAK LINERS

Quercus alba, 3-yr., heavy, nursery-grown.

Per 100 Per 1000

12 to 18 ins. \$ 8.00 \$ 75.00

18 to 24 ins. 11.00 100.00

2 to 3 ft. 13.50 125.00

3 to 4 ft., lightly branched ... 20.00 175.00

4 to 5 ft., lightly branched ... 25.00 225.00

5 to 6 ft., lightly branched ... 35.00 300.00

Free packing. Cash with order.

HAGGERTY LANDSCAPE NURSERY

Lincoln 6, Neb.

ROOTED CUTTINGS

Pfitzer Juniper, large berried Pyracantha, 5c each.

2 1/2-in. potted: Pfitzer Juniper, large berried Red Pyracantha, Euonymus japonicus, Pyracantha lalandi, 10c each.

Buckets: Euonymus japonicus, 40c each; Pyracantha lalandi, 50c each, at nursery.

Cash with order.

CARDEN'S NURSERY & CUT FLOWERS

4201 North St. Ft. Smith, Ark.

WHOLESALE, NURSERY-GROWN SEEDLINGS, SPRING 1958

Each 100 rate 1000

Albizia julibrissin (Mimosa)

6 to 12 ins. 4c 2 1/2c

12 to 18 ins. 5c 3c

Alnus cordata (Italian Alder)

12 to 18 ins. 9c 6c

18 to 24 ins. 12c 9c

2 to 3 ft. 15c 12c

Celastrus orbiculatus (Chinese Bittersweet)

No. 1, heavy, 18 to 24 ins. 10c 8c

Extra heavy, 2 to 3 ft. 15c 12c

Fraxinus ornus (Flowering Ash)

6 to 12 ins. 6c 5c

12 to 18 ins. 9c 8c

18 to 24 ins. 12c 10c

2 to 3 ft. 15c 13c

Juglans nigra (Black Walnut)

12 to 18 ins. 7c 5c

Lonicera maackii podocarpa (Amur Honeysuckle)

6 to 12 ins. 5c 4c

Malus sieboldi (Toringo Crab Apple)

6 to 12 ins. 5c 3c

12 to 18 ins. 7c 5c

Nyssa sylvatica (Black Gum)

4 to 6 ins. 5c 3c

6 to 8 ins. 7c 5c

8 to 12 ins. 7c 5c

Prunus americana (American Plum)

No. 1, 3/16 to 1/4-in. cal. 4 1/2c 4c

1/4-in. cal. and up. 5c 4 1/2c

Per 100 Per 1000

Prunus cerasifera (Myrobalan)

No. 1, 1/4-in. and up. \$4.20 \$37.00

No. 2, 3/16 to 1/4-in. cal. 4.00 35.00

No. 3, 2/16 to 3/16-in. cal. 3.10 27.00

About 2/16-in. cal. 2.30 20.00

Prunus mahaleb (same sizes and prices as Myrobalan)

Each 100 rate 1000

Prunus tomentosa (Nanking Cherry)

4 to 6 ins. 5c 3c

Pueraria thunbergiana (Kudzu)

No. 1 6c 5c

No. 2 5c 4c

Syringa vulgaris (Lilac)

2 to 4 ins. 4c 2 1/2c

4 to 6 ins. 5c 4c

Ulmus parvifolia (True Chinese Elm)

4 to 6 ins. 4c 3c

6 to 12 ins. 9c 7c

Plants are tied 25 to the bundle, so please order in units of 25, 25 to 300 take the 100 rate; 300 or more take the 1000 rate. Prices are F.O.B. Elsberry—any necessary crates at cost.

All plants offered are grown in our own nursery. None are collected and we broker no plants.

FORREST KEELING NURSERY

Elsberry, Mo.

PIN OAK LINERS

QUERCUS PALUSTRIS

Each

2 to 3 ft. \$0.50

3 to 4 ft.75

4 to 5 ft. 1.00

5 to 6 ft. 1.50

Well-rooted, branched some. Free packing when cash accompanies order; all others at cost.

PAUL'S NURSERY, R. 3, Shelby, O.

SCOTCH PINE SEEDLINGS

For Christmas trees, 2-yr.-old, 4 to 8 ins.

Per 1000 Per 10,000

German strain \$15.00 \$125.00

French strain 15.00 125.00

Riga strain 15.00 125.00

TERMS: 50 per cent down, balance C.O.D.

R. R. 3 CORNELIUS RYNSBURGER

Hudsonville, Mich.

MIMOSAS

6 to 8 ft., 85c each, \$75.00 per 100.

5 to 6 ft., 65c each, \$50.00 per 100.

Have some 3000 2 and 3-yr.-old.

No charge for packing by truck, otherwise we charge cost.

PIGGOTT NURSERY CO.

Piggott, Ark.

COLLECTED STOCK.

Quality, open field-grown.

Sugar and Rubrum Maples, Pin Oak, Chinese Elm, White Birch, Sycamore, white Dogwood, Vinca (Myrtle), Phone S. Bend, Central 33318.

VAUGHAN'S NURSERY & GHSE. CO.

15910 Cleveland Rd. Granger, Ind.

VIBURNUM CARLESI

Seedlings that have been bedded 2 years.

Excellent for lining out or for pre-wrapping for cash and carry. In lots of 25 or more,

12 to 15 ins., 60c; 15 to 18 ins., 75c.

HILLENMEYER NURSERIES

Lexington, Ky.

SHRUBS AND TREES—Continued

SEEDLINGS AND TRANSPLANTS			
Per 100 Per 1000			
Taxus canadensis	2-yr., 3 to 6 ins.	\$10.00	\$ 80.00
Pine, Austrian	2-yr., 3 to 4 ins.	4.00	20.00
	2-yr., 8 to 12 ins.	5.00	35.00
	T. 8 to 12 ins.	12.00	80.00
	T. 12 to 18 ins.	15.00	120.00
Pine, Mugho (dwarf)	2-yr., 1 to 3 ins.	4.00	30.00
	3-yr., 4 to 8 ins.	6.00	50.00
Pine, Scotch	2-yr., 4 to 6 ins.	4.00	25.00
	T. 6 to 12 ins.	12.00	75.00
	T. 12 to 15 ins.	15.00	100.00
Spruce, Colorado	2-yr., 2 to 4 ins.	4.00	25.00
	2-yr., 4 to 8 ins.	6.00	40.00
	T. 4 to 8 ins.	12.00	80.00
	T. 8 to 12 ins.	15.00	120.00
Spruce, Engelmann	2-yr., 2 to 4 ins.	4.00	25.00
Spruce, Norway	2-yr., 3 to 6 ins.	4.00	20.00
	2-yr., 6 to 12 ins.	5.00	30.00
	4-yr., 8 to 15 ins.	6.00	40.00
	T. 8 to 12 ins.	12.00	75.00
Fir, Douglas	2-yr., 4 to 8 ins.	5.00	25.00
Hemlock, Canadian	2-yr., 4 to 8 ins.	3.00	40.00
Larch, decidua	2-yr., 8 to 12 ins.	4.00	30.00
	3-yr., 12 to 24 ins.	8.00	50.00
	4-yr., 24 to 30 ins.	25.00	....
Mountain Ash	1-yr., 8 to 12 ins.	6.00	40.00
	1-yr., 12 to 18 ins.	8.00	50.00
	1-yr., 18 to 24 ins.	10.00	60.00
Dogwood, White	1-yr., 8 to 12 ins.	4.00	35.00
	1-yr., 12 to 15 ins.	6.00	45.00
Privet, Regia	1-yr., 12 to 18 ins.	3.00	60.00
	2-yr., 12 to 18 ins.	12.00	100.00
	3-yr., T. 18 to 24 ins.	16.00	150.00

Complete catalog on request.
HEASLEY'S NURSERIES

247 Freepoint Rd. Butler, Pa.

ROOTED CUTTINGS

Each, 100 1000			
Taxus, cuspidata, capitata	.....	\$0.10	\$0.08
Arborvitae, Pyramidal, Globe	.....	.10	.08
Juniper, Pfitzer, hetzi, Savin V.E.	.....	.10	.08
BED LINERS, 2-yr.	.....	
Juniper, Pfitzer, Savin V.E.	.....	.33	.30
Arborvitae, Pyramidal, Globe	.....	
American	.....	.35	.30

POTTED TAXUS

Taxus, cuspidata, capitata	.....	.18	.15
1 1/2-in. disintegrating band	.....	
Cuttings, bed liners and potted Taxus	.....	
shipped prepaid, plus usual 2 per cent	.....	
for cash, on orders received before April	.....	
20	.....	

4-YR. LINERS

Taxus cuspidata, XX	.....	.75	.65
Taxus capitata, XX	.....	
8 to 12 ins.	.....	.75	.65
Taxus hicksii, XX	.....	
8 to 12 ins.	.....	.75	.65
Scotch Pine, XX, 12 to 24 ins.	.....	.75	.65

SHRUB TREES

Forsythia, 3 to 4 ft.	.....	.45	.40
Philadelphus virginialis, T.	.....	
10 to 15 ins.	.....	.35	.30
Birch, European White Multiple	.....	
100 8 to 15 ft., B&B, \$15.00 each.	.....	
25 15 to 18 ft., B&B, \$15.00 each.	.....	
Chinese Elm, 8 to 12 ins., S., \$10.00 per 1000.	.....	
12 to 24 ins., S., \$25.00 per 1000.	.....	
200 1 1/2 to 2 1/2 ins., TT.	.....	3.65	..
300 3/4 to 2 1/2 ins., TT. row-run	.....	3.00	..
500 Silver Maple, 1 to 1 1/2 ins., TT	.....	1.75	..

TERMS: 2 per cent discount, cash with order, free packing. One-fourth deposit holds your order until spring. 25 at 100 rate; 250 at 1000 rate.

WRITE FOR COMPLETE PRICE LIST.
RICHARDSON NURSERIES
53947 Fir Rd., R. 1 Granger, Ind.
Phone BLackburn 9-1010.

PINUS STROBUS (WHITE PINE)

Nursery-grown, transpl.	Each, 10	100
2 to 3 ft., B&B	.....	\$1.50 \$1.25
3 to 4 ft., B&B	.....	2.25 2.00
4 to 5 ft., B&B	.....	3.00 2.75
5 to 6 ft., B&B	.....	4.25 4.00

Large specimen quoted by request.

Kalmia latifolia	.....	2.00	1.90
18 to 24 ins., B&B	.....	2.75	2.50
Rhododendrons, maximum	.....	
18 to 24 ins., B&B	.....	2.00	1.90
24 to 30 ins., B&B	.....	2.75	2.60
30 to 36 ins., B&B	.....	3.25	3.00
catanbrense, 18 to 24 ins., B&B	.....	3.00	2.75
24 to 30 ins., B&B	.....	3.50	3.25

Juniperus virginiana, 2 to 3 ft., B&B	.....	1.25	1.00
3 to 4 ft., B&B	.....	1.75	1.50
4 to 5 ft., B&B	.....	2.25	2.00
Cercis canadensis, 5 to 6 ft., tree form, bare-root	.....	1.00	.75

Let us quote on your needs.
J. A. WEDDINGTON & SON
4414 Holston Dr. Knoxville, Tenn.
Phone 3-4417

SHRUBS AND TREES			
Taxus cuspidata capitata	100	1000	
2-yr. seedlings, 4 to 6 ins.	.....	\$9.00	\$75.00
3-yr., transp. seedl., 4 to 8 ins.	.....	15.00	125.00
Taxus canadensis	.....	
2-yr., transplanted, 4 to 6 ins.	.....	10.00	85.00
3-yr., transplanted, 6 to 9 ins.	.....	15.00	125.00
4-yr., transplanted, 9 to 12 ins.	.....	25.00	200.00
Cornus florida	.....	
1-yr. seedlings, No. 1	.....	6.00	50.00
1-yr. seedlings, No. 2	.....	5.00	40.00
2-yr. seedlings, No. 1	.....	12.50	100.00
Andromeda japonica	.....	
transplanted cuttings	.....	17.50	150.00

ROOTED CUTTINGS FROM SAND

Taxus andersoni	.....	15.00	125.00
Taxus brevifolia	.....	15.00	125.00
Taxus Moon's columnaris	.....	15.00	125.00
Taxus densiformis	.....	15.00	125.00
Taxus halimifolia	.....	15.00	125.00
Taxus henryi	.....	15.00	125.00
Taxus brownii	.....	11.00	100.00
Taxus cuspidata nana	.....	11.00	100.00
Taxus hatfieldi	.....	11.00	100.00
Taxus intermedia	.....	11.00	100.00
Taxus hunnewelliana	.....	11.00	100.00

1-YR. BEDDED

Taxus andersoni	.....	17.50	150.00
Taxus brownii	.....	17.50	150.00
Taxus cuspidata	.....	17.50	150.00
Taxus hatfieldi	.....	17.50	150.00
Taxus hicksii	.....	17.50	150.00
Taxus hunnewelliana	.....	17.50	150.00
Taxus intermedia	.....	17.50	150.00

We also have to offer a complete assortment of potted graded stock, rooted grafts of Kwanzan Cherry, Crab Apples, Lilacs, etc. Please ask for complete list. Special prices on quantity orders.

NURSERY SALES, INC.

P. O. Box 295 Ridgewood, N. J.

NEW! ROYAL PURPLE SMOKEBUSH

(Rhus cotinus, royal-purple)

There are several varieties of purple Smokebush, although Royal Purple is considered the very best. Several varieties of Smokebush have been tried out in the nursery with Royal Purple always turning out to be the most outstanding. I am convinced of this to the extent that it is the only one now being propagated in the nursery. Royal Purple keeps its rich, dark purple reddish colored foliage from spring to late fall. In late summer the matured leaves show a mottled edge which is a light red edge around the dark purple leaf. It is an outstanding plant in that it draws the attention of all who visit the nursery and is greatly admired for its brilliant foliage. The foliage is darker than any red Japanese Maple. The plant is adaptable for use as a lawn specimen, especially in locations where the Japanese Maple is not hardy. Royal Purple is the only purple Smokebush to receive a certificate of merit from the Royal Horticultural Society. The branches make an excellent filler for bouquets, especially with Chrysanthemums.

2 to 3 ft., bare-root, 2 to 5 branches, 1 to 99, \$1.75 each; 100 or more, \$1.50 each.
3 to 4 ft., bare-root, per 10, \$3.50 each; per 100, \$3.00 each.

Circular with colored picture of Royal Purple Smokebush sent on request.
C. HOOGENDOORN, NURSERYMAN
Newport, R. I.

EUONYMUS VEGETUS	.....	
12 to 15 ins., bare-root	.....	\$1.00	
15 to 18 ins., bare-root	.....	1.25	
18 to 24 ins., bare-root	.....	1.50	

(Add 40c for B&B)

FRENCH NURSERY CO.

Phone 5331 Clyde, O.

For \$4.00

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

At 40c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the May 1 issue to reach us by April 11.

Forms for May 15 issue will close April 25.

AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

FINISHED EVERGREENS

B&B and shrubs Each, 100			
600 Arborvitae nigra (dark green)	.....	15 to 18 ins.	\$6.50
500 Juniperus pfitzeriana, 10 to 15 ins.	.....	1.15	
200 Juniperus pfitz. (fast type, 12 to 15 ins.)	.....	1.25	
1000 Juniperus glauca hetzi, 10 to 15 ins.	.....	1.15	
300 Juniperus glauca hetzi, 18 to 24 ins.	.....	2.50	
200 Juniperus glauca hetzi, 24 to 30 ins.	.....	2.75	
The above, TTT, sheared and liberally graded.	.....	
400 Euonymus alatus comp., 18 to 24 ins.	.....	.45	
250 Euonymus alatus comp., 15 to 18 ins.	.....	.45	
250 Forsythia spectabilis, 2 to 3 ft.	.....	.30	
250 Deutzia crenata, 2 to 3 ft.	.....	.25	
200 Redbud, 1 1/2 to 2 ft.	.....	.25	
100 Persian Lilacs, 1 1/2 to 2 ft.	.....	.35	
1000 Red Barberry (twice cut back), 10 to 12 ft.	.....	.25	
200 Double Mock Orange (extra heavy), 4 to 6 ft.	.....	.30	

Free delivery Detroit area, \$100.00 and up.

OKE NURSERY

67350 Camp Ground Rd. Romeo, Mich.
Phones Lincoln 6-0331, Plateau 2-2298.
Plants south side 12 Mi. Rd., approx. 200 yds. west of Evergreen.

LIMITED SUPPLY OF GRAFTS AVAILABLE

Send your order in at once!
Apple bench grafts, for immediate delivery; leading varieties, \$15.00 per 100, \$62.50 per 500, \$100.00 per 1000.

Flowering Crab bench grafts, for immediate delivery: Hopsa, Eley, Aldenheim, Parkman, \$20.00 per 100, \$95.00 per 500, \$150.00 per 1000. Almy, \$25.00 per 100.

NATIVE SHADE TREES

Heavy branched.
Red (rubrum) Maple, Pin Oak, Sweet Gum, River Birch and River Birch clumps.

Each, 100

*3 to 4 ft., bare-root..... \$ 0.75

*4 to 5 ft., bare-root..... 1.00

*5 to 6 ft., bare-root..... 1.25

6 to 8 ft., bare-root..... \$ 2.50 2.00

8 to 10 ft., bare-root..... 3.50 3.25

1 to 1 1/2-in., B&B..... 12.00 11.50

2 to 2 1/2-in., B&B..... 12.00 11.50

2 1/2 to 3-in., B&B..... 16.50 16.00

3 to 3 1/2-in., B&B..... 22.00 21.00

Grades marked with * sold only in quantities of 50 or more.

EGYPTIAN NURSERY & LANDSCAPE CO.

Farina, Ill.

SHRUBS

ALTHAEAS, NAMED VARIETIES

2 to 3 ft..... .65c

3 to 4 ft..... .75c

DEUTZIA GRACILIS

15 to 18 ins..... .50c

18 to 24 ins..... .60c

FORSYTHIA SPECTABILIS

2 to 3 ft..... .60c

3 to 4 ft..... .60c

HONEYSUCKLE, ZABEL

2 to 3 ft..... .55c

3 to 4 ft..... .65c

SPIRAEA ANTHONY WATERER

15 to 18 ins..... .60c

18 to 24 ins..... .60c

TAMARIX, AMURENSIS AND HISPIDA

2 to 3 ft..... .60c

3 to 4 ft..... .75c

PHILADELPHUS VIRGINALIS

2 to 3 ft..... .60c

3 to 4 ft..... .70c

FRENCH NURSERY CO.

Phone 5331 Clyde, O.

B&B STOCK

3000 Juniperus pfitzeriana, 18 to 24 ins., \$2.00.

1000 Berckmans' Golden Arborvitae, 15 to 18 ins., \$1.50.

1000 globe Arborvitae, 15 to 18 ins., \$1.50.

1000 Juniper grafts: keteleeri, columnaris, and cupressifolia, 2 to 3 ft., \$2.00.

500 Viburnum carlesii, 2 to 3 ft., \$2.00.

1000 Osmanthus americanus, 2 to 3 ft., \$2.00.

500 white Dogwood, 3 to 4 ft., \$2.00.

500 pink Dogwood, 3 to 4 ft., \$2.50.

BARE-ROOT STOCK

1000 red-flowering Peach, transplants, 3 to 4 ins., 90c.

500 Euonymus alatus, 18 to 24 ins., 90c.

3000 Lonicera fragrantissima, transplants, 3 to 4 ft., 40c.

LINING-OUT STOCK

5000 Juniperus pfitzeriana, 2-yr., field, 25c.

5000 Nandinas, 2-in. pots, 10c.

Ask for our complete list.

NICK'S NURSERY, ANCHORAGE, KY.

FLOWERING TREES

Crab Apples, 40 varieties; 1-yr. trees.

Limited number, 7 to 8 ft., reset at one year. Descriptive booklet available.

Crataegus, Winter King.

5 to 6 ft., whip, \$1.50.

Magnolias, soulangeana and nigra.

4 to 5 ft., heavy, B&B, \$5.00.

5 to 6 ft., heavy, B&B, \$6.00.

6 to 8 ft., heavy, B&B, \$7.00.

Cornus kousa, chinensis, edulis.

5 to 6 ft., B&B, \$5.00.

6 to 8 ft., B&B, \$7.00.

Cydonia Crispum Beauty.

SPRING 1958 WHOLESALE PRICE LIST

LINERS, 2-yr., bedded stock 100 1000
 Juniper, Andorra, 10 to 12 ins. \$22.00 \$180.00
 globe Arborvitae (woodwardii), 8 to 10 ins. 22.00 180.00
 Ilex rotundifolia, 6 to 8 ins. 15.00 100.00
 Ilex rotundifolia, 8 to 10 ins. 17.00 125.00
 Unnamed Rhododendron hybrids of hardy ponticum, well-branched catawbiense parentage. Good foliage with firm, lightweight ball, twice transplanted, bed-grown. Jap. beetle certified.
 4 to 6 ins. \$25.00 per 100, \$200.00 per 1000
 6 to 8 ins. 30.00 per 100, 250.00 per 1000
 250 plants at 1000 rate. Stock offered subject to prior sale. Free packing. F.O.B. Willoughby, O. Terms: 2 per cent discount for cash with order, or by express C.O.D. Open Sundays. Visitors welcome.
 Balled and burlapped; well-sheared stock. Pick up at nursery.

JUNIPERUS GLAUCA HETZI
 Each, 1 to 10 to 25 25 up
 16 to 24 ins. B&B \$2.25 \$2.00 \$1.75
ILEX ROTUNDIFOLIA
 14 to 18 ins. B&B 2.00 1.75 1.50
LITTLE ACRES NURSERY
 H. D. 2, Chardon Rd. Willoughby, O.

WELL-GRADED SHRUBS
 Available for immediate delivery.
 Barberry, red-leaved, 2-yr. transplanted, 12 to 15 ins., bushy. 22c
 9 to 12 ins. 15c
 Buddleia Charming (pink), No. 1. 25c
 Buddleia hartwegii (purple), No. 1. 25c
 Deutzia gracilis, 12 to 15 ins. 25c
 Hydrangea P.G., 12 to 18 ins. 22c
 Philadelphus aureus, 9 to 12 ins. 25c
 Philadelphus virginialis, 2 to 3 ft. 35c
 Spiraea Anthony Waterer, 18 to 24 ins. 35c
 Spiraea foebell, 2 to 3 ft. 25c
 Viburnum plicatum (Japanese Snow-ball), 2 to 3 ft. 75c
 18 to 24 ins. 60c
 Send for list of other offerings.
CONGDON'S WHOLESALE NURSERY
 North Collins, N. Y.

EVERGREENS, WHOLESALE
 A wide selection of Evergreen seedlings and transplants, also hardwoods, shade trees, ornamentals, shrubs and flowering trees. Our selected seed with good heredity and scientific culture assures healthy trees with heavy roots for rapid growth.
 Musser offers quality trees at a price made possible through large quantity production. Our cold storage permits late shipments. No charge for packing and boxing. Ask for complete catalog and wholesale planting list.

Our ad. appearing on page 30 of this issue, shows a partial list of seedlings and transplants.

MUSSER FORESTS
 Box 16-DC Indiana, Pa.

SHRUBS AND TREE, BARE-ROOT
 Each, 100
 800 Cotoneaster apiculata, 18 to 24 ins. \$1.85
 15 to 18 ins. 1.50
 1100 Cotoneaster divaricata, 2 to 3 ft. .95
 800 Euonymus alatus, 2 to 3 ft. .90
 600 Philadelphus virginialis, 18 to 24 ins. .35
 Double-flowering, 2 to 3 ft. .45
 1000 Salix purpurea nana, 18 to 24 ins. .25
 Dwarf Arctic Willow, 2 to 3 ft. .35
 250 Viburnum burkwoodi, 18 to 24 ins. .75
 B&B, add 50c per plant.
 Special quotations on large quantities. Truck loadings only.
GERARD K. KLYN, INC.
 Mentor, O.

PEACH TREES
 Elberta, Early Elberta, J. H. Hale, Hale-haven, Redhaven, 4 to 6 ft., 25c each; 3 to 4 ft., 20c each. These are of good caliber, guaranteed to please.

GLOBE ARBORVITAE
 1-yr. transplants, 8 to 10 ins., \$15.00 per 100.
DAVIS NURSERY
 Route 2 Bentonville, Ark.

SHADE AND FLOWERING TREES
 Large assortment of varieties and sizes, ready for immediate shipment. See our display ad in March 15 issue. Ask for quantity rates.

WAYNESBORO NURSERIES
 Waynesboro, Va.

Northern-grown stock: Mugho, White and Red Pine; Black Hills, White and Colorado Spruce; Virg. and Scop. Juniper, B&B and lining-out stock. Also Mt. Ash, White Birch. The Pequot Nurseries, Brainerd, Minn.

SHRUBS
 Wide assortment of varieties and sizes. Ask for wholesale list.
WAYNESBORO NURSERIES
 Waynesboro, Va.

2-YR. RED AND PIN OAK SEEDLINGS
 Red Oak 15 to 24 ins., thick stemmed, \$68.00 per 1000. Pin Oak 8 to 14 ins., \$40.00.
ROBERT E. SMITH NURSERY
 H. D. 1, Port Matilda, Pa.

GREEN ASH, SURPLUS
 18 to 24 ins., 2-yr., root-pruned, \$15.00 per 1000. Over 5000, \$12.00.
WESTERN EVERGREENS
 Route 1 Golden, Colo.

Azalea mollis
 10 to 12, B&B \$ 0.65
 12 to 15 .80
 15 to 18 1.25
 4 to 6, 2-yr., T. per 100 15.00
 6 to 8 20.00
 8 to 10 25.00
Azalea Herbster (evergreen)
 10 to 12 .60
Azalea Othello, 10 to 12 .60
 12 to 15 .75
 Lilac liners, \$20.00 per 100.
 Ambassador, Ruhm Von Horstenstein, Chas. X. Ludwig Spaeth, Lemoine, H. Dekort & Son Nursery, 633 Lincoln St. N.W., Grand Rapids 4, Mich.

TREE AND SHRUB SPECIALS
 Prices quoted per 100; 30 takes 100 rate.
 Green Ash, X, 4 to 5 ft. whips, 65c; 5 to 6 ft., 3/4 to 1-in., 90c.
 Chinese Elm, X, 1 to 1 1/2-in., \$1.25; 1 1/2 to 1 1/2-in., \$2.25.
 Thornless Honey Locust, X, 1 to 1 1/2-in., \$2.00.
 Deutzia Pride of Rochester, 3 to 4 ft., 30c.
 Spiraea vanhouttei, 18 to 24 ins., heavy, 20c.
 Weigela rosea, 3 to 4 ft., heavy, 30c; 4 to 5 ft., 45c.
R. BRUMOND SMITH NURSERY
 R. R. 2, Box 198 Muncie, Ind.

Pfitzer Juniper, 2 1/2-in., potted one year.
 6 to 8 ins., shipped out of pots, \$15.00 per 100, \$150.00 per 1000, in pots here, you pick up. Approximately the following 2 1/2-in. pots:
 500 Keteeler Juniper, 1-yr., 6 to 8 ins., 20c;
 300 Keteeler Juniper, 2-yr., 12 to 18 ins., 25c;
 750 fastigiata Irish Juniper, 6 ins.; 1200 Euxis sempervirens, 5 ins.; 15c; 500 Photinia serrulata, 7 to 12 ins., 20c; 1500 Photinia serrulata, 3 to 5 ins., 15c. Pots not included except where specified. Cash with order earns 2 per cent discount; otherwise 25 per cent cash with order and balance before shipment.
Harwell Nursery, Van Buren, Ark.

TREE SEEDLINGS
 Bare-root Per 100 Per 1000
 Pin Oak, 2-yr., 12 to 18 ins. \$12.00 \$ 53.00
 Pin Oak, 2-yr., 18 to 24 ins. 15.00 125.00
 Norway Maple, 2-yr., 9 to 12 ins. 10.00 75.00
 12 to 18 ins. 12.00 85.00
 White Dogwood, 2-yr., 12 to 18 ins. 10.00 75.00
 Rosa multiflora, 2-yr. 10.00 75.00
 Rosa rugosa, 2-yr. 10.00

ELLERY NURSERIES
 Du Pont Parkway Smyrna, Del.

AMUR RIVER PRIVET
 1-yr., 1 cane, 9 to 18 ins., \$25.00 per 1000.
YELLOW WEEPING WILLOW
 18 to 24 ins., \$6.50 per 100.
 2 to 3 ft., \$8.00 per 100.
 Concord Grape, 3-yr., \$15.00 per 100.
 Terms: Packed free when cash accompanies order.

PAUL'S NURSERY
 Route 3 Shelby, O.

SPECIMEN COLLECTED PIN OAKS
NURSERY-GROWN NORWAY MAPLES

HEAVY ROOTED CUTTINGS
 Taxus, cuspidata, media hatfieldi.
 Thuja occidentalis pyramidalis.

BLODGETT NURSERIES
 Perkasee, Bucks Co., Pa.
 Phone AL 7-6930

Rooted cuttings from open frames.
 Blue Arctic Willow .50c
 Forsythia Lynwood Gold .50c
 Euonymus Sarcocoe .70c
 Euonymus, patens and erectus .50c
 Euonymus (purple-leaved Winter Creeper) .50c
 Chinese Privet (hardy strain) .50c
 Regel Privet (true) .50c
 Amur River North Privet .40c
 Whiteman's Gardens, R. 1, Plymouth, Ind.

CANADIAN HEMLOCK 100 1000
 2-yr. seedlings, 3 to 6 ins. \$5.00 \$25.00
 2-yr. seedlings, 6 to 10 ins. 7.00 45.00
 3-yr. seedlings, 9 to 12 ins. 10.00
 3-yr. transplants 20.00
 B&B, 15 to 18 ins., \$2.50 each.
 Sizes 10 to 15 ft. Prices on request.

SOERGER TREE SERVICE
 Hilltop 3-1051 Gibsonia, Pa.

HYBRID RHODODENDRONS
 Red, pink, lavender. Excellent stock, 15 to 18 ins., 18 to 24 ins. and up. We also have Ilex, Azaleas, pyramidal Arborvitae. SEE THEM OR CALL WH 3-2147.

TORCH NURSERIES
 32228 Glen Arden Dr. Willowick, O.

SHRUBS AND TREES
 See our Classified ad in this issue under **LINING-OUT STOCK**
T. G. OWEN & SON, INC.
 Columbus, Miss.

Quercus rubra (Red Oak), root-pruned, field specimens, 2 to 8-in. caliper.
R. H. Rogers Nursery, Cooperstown, N. Y.

TAXUS
TAXUS CAPITATA
 4-yr., heavy transplants, 10 ins. up \$600.00 per 1000.

THE HOME NURSERY
 Corliss Ingels LaFayette, Ill.
 Since 1887. On Route 17. In Stark County.

LINERS IN TAXUS (YEW)

Extra heavy, 2-yr.-old, transplanted, field-grown, certified stock.
 Ship beetle zone, outside beetle zone.
HATFIELDI, upright
MOONII, upright
HICKSI, upright
CUSPIDATA CAPITATA, upright; from leaders

CUSPIDATA, spring
 \$40.00 per 100, \$350.00 per 1000.
 3-yr.-old THAYERAE, spreading,
 3-yr.-old Denisiformis, spreading,
 \$45.00 per 100, \$400.00 per 1000.

Free packing. Sample on request.
LARRY'S NURSERIES, INC.
 960 Reservoir Ave. Cranston 10, R. I.

TAXUS, BED-GROWN
BARE-ROOTED LINERS
 2-yr., 8 to 10 ins., \$35.00 per 100.
 Hatfieldi, capitata (top cuttings), cuspidata, hicksi, repandens, Moon's columnaris and cuspidata nana.

SPLIT ROCK NURSERIES
 218 Farview Ave. Paramus, N. J.
 Phone HU 9-4508

HEAVY ROOTED TAXUS CUTTINGS
 20,000 Hicks \$ 75.00 per 1000
 2,000 Hatfield 100.00 per 1000
 50,000 cuspidata 75.00 per 1000
 1000 white Dogwood, B&B, 2 to 3 ft., \$1.50 each; 1000 3 to 4 ft., \$1.85 each.
CLARKSBURG NURSERY & CENTER
 Clarksburg, Ind.

TAXUS CAPITATA
 15,000 seedlings, 3-yr., strong, the best we have seen.
 \$15.00 per 100, \$120.00 per 1000.
 Packing free for net cash.
COLE NURSERY CO.
 2004 W. Jackson Painesville, O.

TAXUS CAPITATA
 Strong 2-yr. seedlings, seeds sown lightly, plants grown with plenty of room in beds.
 \$15.00 per 100, \$125.00 per 1000.
C. HOOGENDOORN NURSERIES
 Turner Road Newport, R. I.

TRITOMAS

TRITOMA PFITZERI (RED-HOT POKER)
 No seedlings. True all fall blooming. The exclamation point of the garden.
 100 strong plants, \$15.00; 250 strong plants, \$30.00; 1000 strong plants, \$100.00. Larger quantities, ask for price.
JOHN M. ELZINGA
 P. O. Box 142 Benton Harbor, Mich.

VEGETABLE PLANTS

1958 WHOLESALE PRICE LIST

VEGETABLE PLANTS
 Plant variety Date ready Per 1000
 Cabbage Now \$2.00
 Onion Now 1.50
 Lettuce Now 4.00
 Broccoli Now 4.00
 Cauliflower Now 4.00
 Pepper April 15 4.50
 Eggplant April 15 4.50
 Tomato April 15 3.75
 Hybrid Tomato April 15 5.00
 Sweet Potato April 15 6.00

All above prices F.O.B. Albany.
 Leading varieties. Write for catalog.
 Large, fresh plants. Prompt shipment.
 Write or wire,
PIEDMONT PLANT CO.
 Dept. 905 Albany, Ga.

VIBURNUMS

VIBURNUM CARLESI

Per 100 Per 1000
 2-yr. seedlings, 4 to 6 ins. \$15.00 \$125.00
 2-yr. seedlings, 6 to 8 ins. 20.00 175.00
 2-yr. seedlings, 8 to 12 ins. 30.00 250.00

C. HOOGENDOORN NURSERIES
 Turner Road Newport, R. I.

VIBURNUM CARLESI Each 10
 15 to 18 ins. B&B \$2.25 \$20.00
 18 to 24 ins. B&B 2.75 25.00

NOTE: Plants not balled, 50c less.
WAYNESBORO NURSERIES
 Waynesboro, Va.

Watch Your Results From
American Nurseryman Classified Ads.

WANTED

WANTED

TO GROW NURSERY STOCK
 FOR RELIABLE FIRM.
 REASONABLE TERMS.
 IRRIGATION AND STORAGE AVAILABLE

LORETTO BROS. FRUIT AND NURSERY FARMS
 P. O. Box 57 North Collins, N. Y.

WANTED

Lining-out stock of Canoe Birch (Betula papyrifera), European White Birch (Betula alba)

THEODORE KLEIN NURSERIES
 Crestwood, Ky.

WANTED—Continued

Wanted—Nursery-grown, true-to-name material: Norway Maple, Pin Oak, London Planetree, thornless Honey Locust, Washington Hawthorn. Size 2 to 4 ft. Several thousand of each. Please quote cash prices, stating sizes, N. Tischler, R. D., Jamesburg, N. J.

SUPPLIES

BURLAP

NEW BURLAP
100 to 125-yd. bolts or squares cut to size.
Heavyweight Medium wt. squares
burlap bolts Per 100 pieces
36-in. \$0.21 1/4 yd. 16x16 ins. \$ 3.60
40-in.22 1/4 yd. 20x20 ins. 5.30
45-in.24 1/4 yd. 24x24 ins. 7.80
48-in.26 yd. 27x27 ins. 9.40
54-in.29 yd. 40x40 ins. 20.20
60-in.32 1/4 yd. 30x30 ins. 11.40
72-in.40 1/4 yd. 36x36 ins. 17.20
Other sizes on request. Lightweight erosion cloths, many widths; paper squares, Polyethylene, twine, Saran mesh slats. Minimum order \$50.00. Freight prepaid if check sent with order.

SEAMAN BAG CO.
Growers Service Div.
2512 S. Damen Ave. Chicago 8, Ill.

CANE STAKES

LIGHTNING SERVICE
ON
FRESHLY IMPORTED
JAPANESE BAMBOO CANE STAKES
from
NEW YORK, CHICAGO, PORTLAND, ORE.
Write for our competitive prices
and generous quantity discounts.
McHUTCHISON & CO.
695 Grand Ave. Ridgefield, N. J.
2505 S. E. 11th Ave. Portland 2, Ore.

BAMBOO CANE STAKES
For greenhouse and nursery purposes.
All types and sizes.
Write for prices and quantity discounts.
ALEC HENDERSON, INC.
1305 W. Randolph St. Chicago 7, Ill.

FLATS

CYPRESS FLATS
Shipped from Williamson, N. C.
WHITE CEDAR FLATS
Shipped from Cook, Minn.
Cedar press Cy-
Price Wt. Wt.
Per per per
100 100 100
No. 1, 14x20x2 1/2-in. \$27.00 320 400
No. 2, 14x20x3-in. 31.50 400 500
No. 3, 12x16x2 1/2-in. 20.75 260 325
No. 4, 12x16x3-in. 24.50 275 345
No. 5, 14x16x2 1/2-in. 23.25 275 345
No. 6, 14x16x3-in. 27.50 290 365
No. 7, 15x22x2 1/2-in. 30.75 380 475
No. 8, 15x22x3-in. 35.50 425 535
No. 9, 11 1/4x22x2 1/2-in. 25.00 320 400
No. 10, 11 1/4x22x3-in. 29.00 400 500
No. 11, 14x16x5-in. 32.75 450 560
No. 12, 5x11x5-in. 16.75 160 200
No. 13, 5x16x5-in. 19.00 215 270
Plant boxes, 8x12x2-in. 5.50 45 60
Skeleton flats to carry TEKPAKS and similar growing containers. (Write us for price list.)

All other sizes quoted on request.
Above prices apply to both Cypress and Cedar.
5 per cent discount on orders of 1000 or more; 10 per cent discount on carloads of 30,000 lbs. or more.
The above sizes are inside measurements. Bottoms and sides are 3/4-in. thick and ends are 1/2-in. thick. All material surfaced on one side.
Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: \$1.00 setup charge, plus 1/4¢ per end piece for the first 1000 ends; 1/8¢ per end thereafter.
Write inquiries and orders for White Cedar flats to Cook, Minn., and for Cypress flats to Williamson, N. C.
Shipped knocked-down in units of 25, F.O.B. mills. All shipments by truck unless otherwise specified. Attach check. Order by number, especially if by telegram.

H. C. HILL & SONS
Manufacturers of flats, boxes, wood turnings
Phone North 6-3342 Cook, Minn.
Phone SW 2-4127, Williamson, N. C.

REDWOOD FLATS, K.D.
Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure. \$28.00 per 100.
121-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., \$3.50 per bdl.
50 pcs. to bundle, 6 ft., \$4.50 per bdl.
50 pcs. to bundle, 8 ft., \$5.50 per bdl.
Ship same day. Cash with order, please.
YOHO & HOOKER, YOUNGSTOWN 2, O.

FERTILIZERS

PETERS SPECIAL
CONTAINER-GROWING FERTILIZERS
All materials listed are ideal for container-growing purposes.

SOLUBLE FERTILIZERS
21-7-7 Azalea Neutral (non-acid forming)
21-7-7 Azalea Acid (heavy acidifying action)
Both above, \$6.50 per 25-lb. bag.

\$22.00 for 4 25-lb. bags.
20-20-20 General Purpose Feed
\$7.00 per 25-lb. bag, \$24.00 for 4 25-lb. bags.

LONG-LIFE FEEDS
13-6-6 Organic Special Du Pont Uramite
Nitrogen and highest grade natural organics. The finest long-life dry feed. Unexcelled for containers.

\$7.50 per 25-lb. bag, \$28.00 for 4 25-lb. bags.
Du Pont Uramite, 33 per cent nitrogen from methyl-urea, \$12.00 per 50-lb. bag.

Also available: Chelated Iron, Chelated Trace Element Complexes, Fritted Trace Elements, etc.

FERTILIZED POTASH
Contains 32 per cent K₂O, plus fritted trace elements. Will not leach away. Gives 6 to 9 months assured supply of Potash, regardless of leaching rain or heavy watering. \$9.00 per 25-lb. bag; \$8.00 per 25-lb. bag for 4 to 39 bags.

Write for complete price list.
Freight prepaid, east of Mississippi, on all orders totaling 300 lbs. or more of above materials. Less than 300 lbs., F.O.B. Allentown, Pa.

ROBERT B. PETERS CO.
739 North 7th St. Allentown, Pa.

FLOCKING SUPPLIES

FLOC-FLO
Supplies, equipment
and free "How to Do It."
FLOC-FLO ENGINEERING DESIGN
5802 Olson Highway Minneapolis, Minn.

Small Ads Do Great Things in the American Nurseryman Classified Section.

LABELS

DAHLIA OR TREE LABELS
Priced per carton
Plain Painted
3 1/4 x 1/2 ins., notched, not wired, \$2.00 \$3.60
3 1/4 x 1/2 ins., wired (copper) ... 3.95 4.90
POT LABELS
4 x 1/2 ins. (cartons 1000 each) ... 3.95 4.60
5 x 1/2 ins. (cartons 1000 each) ... 4.30 5.10
6 x 1/2 ins. (cartons 1000 each) ... 4.70 5.80

Priced per carton
Plain Painted
8 x 1/2 ins. (cartons 500 each) ... \$2.60 \$4.30
10 x 1/2 ins. (cartons 500 each) ... 4.20 6.10
GARDEN STAKES
5 x 1/2 ins. (cartons 250 each) ... 2.00 3.60
10 x 1/2 ins. (cartons 250 each) ... 3.00 3.90
12 x 1 1/4 ins. (cartons 100 each) ... 2.00 2.40
Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

Catalog on request.
"We ship same day."
YOHO & HOOKER, YOUNGSTOWN 2, O.

Turn Stock into Dollars
by Listing It in the Classified Ads
of the American Nurseryman.

ORCHID SUPPLIES

IVORY ORCHID BARK
For potting all Orchids.
1-cu. ft. bag, \$2.15; hobby bag, 65c.
2-cu. ft. bag, \$3.75; prof. bag, \$1.85.
3-cu. ft. bag, \$5.00.

100-lb. bag Hoof and Horn Meal, \$14.50.
All prices F.O.B., subject to change without notice.

List of ORCHID SUPPLIES upon request.
WRIGHTWOOD FLORAL CO., INC.
1420 Wrightwood Ave. Houston 9, Tex.

Surplus Stock
can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads

PLANT TUBS

UTILITY PLANT TUBS
Nurserymen's all-purpose tub, made from sturdy New England White Pine. Popular sizes, in green, white and white with gold bands.

F.O.B. N. H. or Chicago.
Complete listing and quantity discounts on request.

Sole Distributor.
ALEC HENDERSON, INC.
1305 W. Randolph St. Chicago 7, Ill.

CALIFORNIA REDWOOD OCTAGON TUB
DeLuxe Model
The finest of California's Redwood, it's beauty enhanced by copper-coated brass bands, makes this a really DeLuxe MODEL, for indoor and outdoor use, and a size for every purpose.

Write for complete listing.
Quantity discounts offered.
ALEC HENDERSON, INC.
1305 W. Randolph St. Chicago 7, Ill.

PLASTIC FILM

POLYETHYLENE FILM

Natural transparent and sun-resistant black.
.002 mil., all rolls 200 ft. long.
4 ft. x 200 ft. \$ 6.00 per roll
8 ft. x 200 ft. 12.00 per roll
.004 mil., all rolls 100 ft. long.
3 ft. x 100 ft. \$ 5.00 per roll
4 ft. x 100 ft. 7.00 per roll
6 ft. x 100 ft. 11.00 per roll
8 ft. x 100 ft. 15.00 per roll
Minimum order 4 rolls.

Other sizes and mil. weights available up to 40 ft. Write for quotations.
Freight prepaid on orders over \$100.00.

Phone Baldwin 3-8277
DAYTON NURSERY AND GARDEN SALES
P. O. Box 763 Dayton 1, O.

POLYETHYLENE FILM

Natural transparent, made from Du Pont Alathon, the amazing film for greenhouses.
.004 mil., all rolls 100 ft. long.
3 ft. wide by 100 ft. long \$ 6.00 per roll
4 ft. wide by 100 ft. long 8.00 per roll
6 ft. wide by 100 ft. long 12.00 per roll
8 ft. wide by 100 ft. long 16.00 per roll
Other sizes available up to 20 ft. wide.
Send \$1.00 for liberal sample,
4 ft. x 10 ft., postpaid.

Special deal for greenhouse construction.
5 rolls to 3 rolls, 25 per cent discount.
10 rolls or more, 33 1/2 per cent discount.

"We ship same day."
YOHO & HOOKER
520 Williamson Ave. Youngstown 1, O.

POLY. FILM SALE

Available on rolls in multiples of 100-ft. lengths, in the following widths: 36 ins., 48 ins., 54 ins., 72 ins., 108 ins.
2 1/2 mil. \$0.99 per 100 sq. ft.
4 mil. 1.95 per 100 sq. ft.
Quantities over 2000 sq. ft., write for discounts. Prepaid if check sent with order.
Burlap, paper wraps, twines, shading materials.

SEAMAN BAG CO.
Growers Service Div.
2512 S. Damen Ave. Chicago 8, Ill.

POLYETHYLENE FILM

2 mil. in 200-ft. rolls, 36 ins. wide, \$5.96;
54 ins. wide, \$8.79; 108 ins. wide, \$17.54.
4 mil. in 100-ft. rolls, 36 ins. wide, \$6.19;
54 ins. wide, \$9.12; 108 ins. wide, \$20.29.
5 rolls, less 10 per cent; 10 rolls, less 20 per cent. Also wider widths available.
We pay freight if check in with order.

ROUGH BROS.
4229 Spring Grove Ave. Cincinnati 23, O.

RUBBER TUBING

Rubber tubing for guide wires, 3/16-in. inside dia. x 1/2-in. outside dia. 100-ft. coil, \$4.75 each, F.O.B. Middlefield.
Markay Nursery, Lake St., Middlefield, O.

SPHAGNUM MOSS

NO. 1 SPHAGNUM MOSS
Large burlap bales, long fibered, clean, firmly packed; bale, \$1.25.
JOSEPH JAMROS, CITY POINT, WIS.

Fresh, clean sphagnum moss, write or phone City Point 133 for our low prices on wire-bound bales in truckloads or carlots.
Pure Sphagnum Moss Co., City Point, Wis.

Long-fibered sphagnum moss, also ground moss. Price us on truckloads delivered.
Warrens Moss Co., Warrens, Wis.

STAKES

CYPRESS PLANT STAKES

50 pieces to bundle.
1x1-in.—3 ft., pointed \$3.00 per bundle
1x1-in.—4 ft., pointed 3.50 per bundle
1x1-in.—5 ft., pointed 4.50 per bundle
1x1-in.—6 ft., pointed 5.50 per bundle
1x1-in.—7 ft., pointed 7.00 per bundle
These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!
YOHO & HOOKER
Youngstown 2, O.

STAKES, GALVANIZED HARD STEEL
GALVANIZED tree guying WIRE,
HOSE for guy wire PADDING.
Prices and samples sent on request.
SCHUPP SUPPLY CO., WILMETTE, ILL.

TWINE

TWINE SALE

Finest European quality.
24 lbs., 3 and 4-ply Jute Twine \$0.58 lb.
1, 2 or 3-ply finest Sisal Twine 44 lb.
Baler and Binder Twine 43 lb.
1-lb. to 50-lb. reels and bails, single and many end put up. Minimum order, \$40.00, freight prepaid if check sent with order.
Burlap, paper wraps, Poly. film, shading materials.

SEAMAN BAG CO.
Growers Service Div.
2512 S. Damen Ave. Chicago 8, Ill.

LANDSCAPING BOOKS

The Art of Home Landscape
By Garrett Eckbo. \$5.95

Gardens Are for People
By Thomas D. Church. \$10.00

Lawn and Landscaping Handbook
By Thomas H. Everett. \$2.00

Ground Cover Plants
By Dr. Donald Wyman. \$4.75

Complete Home Landscape and Garden Guide
By R. P. Korbobo. \$3.95

Landscaping Plans for Small Homes
By Ralph Bailey. \$2.00

Landscaping Your Home
Sunset Magazine. \$1.00

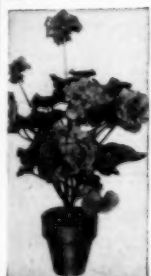
Landscape Sketching
By Arthur Black. \$5.75

Shrubs and Trees for the Small Place
By P. J. Van Melle. \$3.00

Order from

AMERICAN NURSERYMAN

343 S. Dearborn St. Chicago 4, Ill.



This little plant
went to market
in a **UNION**
PLASTIC POT!

... and somebody
took it home!

Write for prices.

UNION PRODUCTS, INC.
Leominster, Mass.

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NEW BULLETINS

NURSERY TRADE IN TEXAS

The Texas Nursery Industry, bulletin MP-222 of the Texas agricultural experiment station, College Station, surveys the expanding trade in the state, which in 1949 ranked second in the nation — preceded only by California — in the production of nursery crops. Prepared by A. C. Hudson and H. B. Sorensen, of the experiment station staff, the bulletin reports that the number of Texas nursery farms increased from 181 to 945 during the period from 1920 to 1954, while sales increased from \$871,000 to \$7,272,000. Although the average acreage per nursery decreased during this period from slightly less than 17 acres to less than 11, average sales rose from \$4,813 to \$7,696.

Three out of every four Texas nurseries reporting in the 1949 census were owned by individual proprietors. A partnership operation was reported by 22 per cent, and only 3 per cent were owned by corporations. Wages and salaries constitute slightly less than three quarters of the operating expenses of Texas nurseries, which provide employment for over 4,000 persons. According to the bulletin, advertising, planting stock and fertilizer are the other major expenses.

FOREST NURSERY TEXT

"Forest Nursery Practice in the Lake States," agriculture handbook No. 110, published recently by the forest service, United States Department of Agriculture, is a volume that could interest many producing nurserymen. The large-scale program of tree planting in the region, beginning in the 1930's and carried on through 27 forest nurseries in the area, has furnished a rich background of experience in the production of nursery stock, both conifers and broad leaves. This publication presents the results of that experience and supplements the practical references with observations from a large number of nursery experiments and field-planting tests. Emphasis, of course, is on mass production of 1 to 4-year-old nursery stock grown from seeds and suitable for reforestation.

The volume was prepared by J. H. Stockeler, forester, Lake States forest experiment station (maintained

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It is **TOPS**
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Oldest, most respected nursery in Rocky mountain area needs 1 experienced commission landscape salesmen at once. Nursery in same location since 1886. Member of A. A. N. over 30 years.

Year-round selling (our top man earned \$1,000 a month for October, November and December). Large, complete line of container-grown stock for summer sales; bare-root and B&B material for spring, fall and winter.

Many leads furnished in one of the fastest-growing, prosperous cities in U. S. (expect minimum of 60,000 more new homes by 1965).

Must have own car and be experienced in drawing and presenting landscape plans. Send picture and resume, including experience, average sales of preceding 2 years and references.

W. W. WILMORE NURSERIES
Box 382 Denver 1, Colo.

HELP WANTED

NEED FOUR GOOD MEN

1. Landscape architect and salesman.
2. Assistant manager for sales at garden center.
3. Nursery superintendent and maintenance man.
4. Landscape foreman.

All above men must be experienced and above average in initiative, ambition and workmanship. Good salary; permanent, immediate employment. Give full details and send photo in first letter.

HALLA NURSERY
4917 Eden Ave.
Minneapolis, Minn.

SITUATION WANTED

Experienced nurseryman in business nearly 25 years, familiar with all phases of this business, would be willing to work on commission based on volume of business, or straight draw and bonus. Can be a great asset to a retail operation. Familiar with buying, merchandising, advertising and handling of personnel. Would be willing to line up with an aggressive organization as I know I can be an asset to any operation requiring one of my ability. Single, age 50. Can furnish best of references. Write to Box 446, care of American Nurseryman.

HELP WANTED

TWO POSITIONS OPEN

Need landscape salesman and retail nurseryman both thoroughly experienced. Salary and commission, high earnings assured. Send airmail letter detail experience.

MALMO NURSERIES
4700 - 25th N. E. Seattle, Wash.

HELP WANTED

DEPARTMENT MANAGER

Nationally prominent wholesale fruit and vegetable distributor needs man to take charge of flower department; initiate supplies, promote distribution and merchandising flower sales and related items on national scale. Real opportunity in progressive organization for qualified man under 35. Must have sales ability, good health; be bondable, willing to travel. Write stating qualifications such as prior employment record, schooling, marital status and salary requirements. Write Box 491, care of American Nurseryman.

SITUATION WANTED

Design and field supervision or foreman opportunity with landscape contractor-nurseryman or in landscape architect's office. University of Michigan graduate; knows plant materials; returned to this country last fall after two years' apprenticeship with landscape architect in Japan. At present, free-lancing—drawing plans and supervising construction on residential sites and extensive Japanese garden project for Fairmount Park, Pa.

DAVID H. ENGEL
38 Brookdale Gardens
Bloomfield, N. J.

SITUATION WANTED

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Aggressive, successful merchant presently employed for two years as manager of \$750,000 volume retail specialty business. Previously assistant manager of \$250,000 volume retail mid-western nursery. Second generation nurseryman, married, family. Business and technical college education. Resume on request. Address replies to Box 188, care of American Nurseryman.

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Male, age 25 to 40, experienced in landscape business, office procedures and machines. Established business progressing; new building; benefits; opportunities. Write age, experience, pertinent information.

MONROE LANDSCAPE SERVICE
25 Ford St. Rochester, N. Y.

HELP WANTED

Experienced sales shop and sales ground manager. Must have thorough knowledge of business. Send replies to Box 486, care of American Nurseryman.

HELP WANTED

LANDSCAPE ARCHITECT-SALESMAN

College graduate preferred to take charge of landscape department and all outside sales. Pennsylvania location. Give full particulars and references in first letter. Write Box 494, care of American Nurseryman.

SITUATION WANTED

College-trained man, with 9 years' experience in all phases of landscape business, desires position with established company. Married, age 38. Write Box 493, care of American Nurseryman.

SITUATION WANTED

Married man, age 28, university graduate with major in ornamental horticulture, desires position with perennial plant nursery. Hard, willing worker with greenhouse experience and best of references. Write to Box 479, care of American Nurseryman.

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Thinking of a change? Tell potential employers about your abilities by using an ad in this department. The cost to reach the widest readership in the industry is only \$4.50 per inch.

WANTED

Established firm desires to represent nursery carrying line of shade trees and evergreens, including rhododendron, for sales mostly to garden centers. Pennsylvania, New Jersey, Connecticut and New York or part thereof. Address replies to Box 487, care of American Nurseryman.

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Garden center—ideal location in shopping center next to supermarket. Doing an excellent business. One of the best locations in Bergen county. (Business property—no restrictions). Interested in net income lease.

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75 Godwin Ave. Midland Park, N. J.
Phone: Gilbert 4-2803

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6325 Chew St. Philadelphia 38, Pa.
Phone: Victor 8-4600

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4-acre nursery, lath house; small greenhouse, large garage and warehouse, 4-bedroom modern home, large storeroom, 12,000 Oriental evergreens, new tractor and all necessary equipment. Due to illness owner will sacrifice stock, equipment and property, \$25,000. Good financing can be arranged. Owner will consider leasing property to reliable person.

WEST REAL ESTATE

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Holland, 2-row, self-propelled mechanical nursery stock transplant. Purchased new 1954, used 1 week, like new. Plants seedlings, bare-root liners, 2½-inch pot plants. Original cost \$680.00. Will sell \$340.00 F.O.B.

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Elizabeth 4-9041 Waverly 6-0404,
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Old-established midwest nursery near population center of 3 million. 110 acres, 50 acres in evergreens, creek through farm. Office, packing house 65x150 ft., 2 large barns, other buildings. Priced to sell. Terms. Write Box 492, care of American Nurseryman.

FOR SALE—Nursery and feed store, 5 acres of land, 5-room modern home. Large packing shed and feed storage building. Located on Rt. 16. Priced to sell, with excellent loan available. Possession at once. MERLYN E. LOWER, Realtor, Pana, Ill. Phone: 3350.

FOR SALE—Nursery and florists' business. Continuous ownership for over 35 years. Within city limits. No competition in large county. Good residence on place. Physically unable to continue. WHITE'S NURSERY & FLORIST, Meeker, Colo.

FOR SALE—Heavy, tin drums with covers 18x13 ins., \$35.00 per 100. Can be cut in halves to make two planters. GUST WERMTER, Rt. 3, Brainerd, Minn.

by the United States Department of Agriculture in cooperation with the University of Minnesota), and G. W. Jones, forester, north central region, U. S. forest service. Copies can be obtained from the Superintendent of Documents, U. S. government printing office, Washington 25, D. C., for \$2.

A thorough reference work in the subject, the book features practical contributions of growers over the past 25 years. Such ideas are particularly notable in the references to equipment devised for special operations, such as harvesting and handling seeds, planting, digging, soil preparation, spraying, protecting plants, packing and shipping. Construction diagrams are provided for many items. Preceding the chapters on cultural techniques are introductory sections devoted to selecting and developing a nursery site. Insect and disease control are likewise given separate chapters, as are the subjects of inventory and cost determination.

There are 124 large pages in the book, about 7½x10 inches, and the text is copiously illustrated. Considerable tabular material enhances the amount of reference data, and a large bibliography is an added feature.

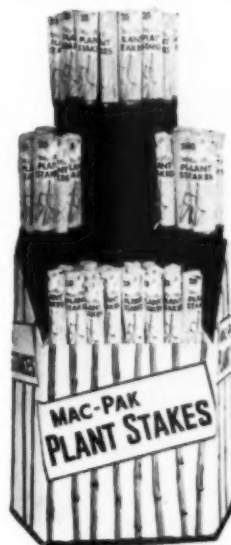
PLANTERS' SUGGESTIONS

Nursery equipment and techniques are the topics of the June, 1957, Tree Planters' Notes, published by the United States Department of Agriculture forest service for nurserymen and planters of forests and shelterbelts. This 28-page issue consists of 11 articles describing devices and methods developed by workers in the field to solve special problems. Included are illustrated notes on tree diggers and lifters, seedbed protectors, seed-handling machinery, tying seed bundles and providing instructions for planters.

FOREST TREE PAPERS

Two have been added to the several station papers on silvical studies of forest trees, one on *Picea glauca*, white spruce, by Hans Nienstaedt, and the other on *Ulmus americana*, American elm, by Paul C. Guilkey. These pamphlets of 22 pages and cover primarily pertain to the forest aspects of these trees, but some of the material may be interesting to propagators. The papers are issued by the Lake States forest experiment station, St. Paul, Minn., a part of the forest service of the United States Department of Agriculture.

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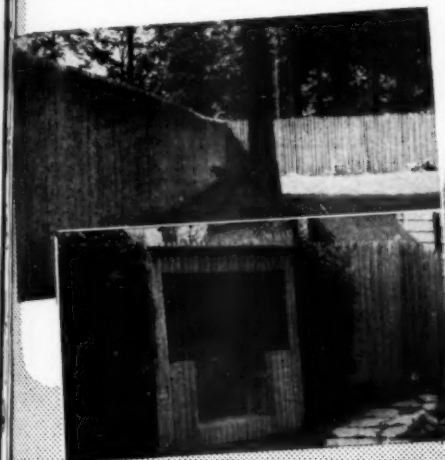
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the stems and keeping the roots on the parent side of the mother plant when cutting up the stems that have been layered.

George P. Blyth, McConnell Nursery Co., Port Burwell, Ont., Canada, reported on the propagation of evergreen grafts in electric cable frames. The McConnell nursery does all its grafting without the aid of greenhouses. Side grafts are used. Gotten grafts are kept upright in heated frames rather than in cold-frames. Grafting usually starts in December, and established grafted plants are subsequently lined out for spring.

Mulch Bed Method

"Mulch Bed Method of Seedling Production" was first discussed by William Sherman, Forrest Keeling Nursery, Elsberry, Mo. He stated that the mulching material his firm uses—called Hedertow—is shavings from barrel stave mills. The mulch has many advantages in that it conserves moisture; prevents crust formation, and controls erosion, temperature and weeds. The mulch is spread with a manure spreader or by hand, one to two inches thick on raised beds, which are three to four feet in width. The advantage of raised beds is that they provide good drainage, aeration and ease in

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Item	Bags Per Carton	Weight Per Carton	Per Bag	Per Carton
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1 qt. Plastic Bag . . .	36	36 lbs.	\$0.12	\$4.32
3 lb. Plastic Bag . . .	18	54 lbs.	.20	3.60
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1 qt. Plastic Bag . . .	36	36 lbs.	.12	4.32
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1 qt. Plastic Bag . . .	36	25 lbs.	.12	4.32
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HANLONTOWN, IOWA

digging. Average-sized seeds are sown with the use of a Gandy broadcast seeder. Large and very small seeds are usually sown by hand.

Mr. Sherman stressed the importance of keeping seed data records, recording the source of seeds, the rate, the date of sowing, per cent of germination, prehandling treat-

ments, date of digging and counts. He said that reports must be kept accurately to be of help to the nurseryman in planning operations for future years. Shade is provided for the seedling beds at time of emergence, for the entire first season and for the second year on certain plants. Shading provides protection

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from the sun, has a cooling effect, conserves moisture and gives protection from winter damage. Lath or picket fence is generally used as shading.

The U-shaped digger is used for lifting the seedlings. The lifter has fingers on the blade to lift the seedling for easy pulling. The seedlings are then graded and stored immediately. Fertilizer is applied to the seedbeds according to soil tests. Supplementary fertilizer is added several times during the season and is applied with irrigation. A pH of 6 or lower is generally recommended for conifer seeds.

Mr. Sherman discussed the various chemicals the Forrest Keeling Nursery uses for insect and weed control. Stoddard solvent was recommended for use in conifer beds. He mentioned also that the new pre-emergence chemicals are most promising for weed control in seedling beds.

Seed Treatment

For various types of seed treatment he referred the plant propagators to the Boyce Thompson Institute bulletins and the Woody Seed Plant Manual. In many dry seasons, fall planting is done, but in wet fall seasons, seeds are stratified and held over until spring. Stratification is done in seed boxes with mixtures of vermiculite and peat moss. Mr. Sherman pointed out the advantages of gathering one's own seeds. He suggested establishing a seed orchard of certain plants to insure a supply of seeds normally difficult to procure. The seed orchard can also furnish cuttings for the nursery.

Roger E. Sherman, manager, soil conservation service plant center, Elsberry, Mo., showed a series of pictures detailing his operation and that of the Forrest Keeling Nursery. These views included the complete procedure of seed handling and methods of cleaning seeds.

The Friday afternoon session opened with a talk by Dr. A. E. Hitchcock, Boyce Thompson Institute, Yonkers, N. Y., on synthetic aids to propagation, including hormones and other chemicals used in cutting, seed and graft propagation. Dr. Hitchcock reviewed the literature on various materials that have proved valuable in propagation, many of which are not available on the market. The Boyce Thompson Institute has made some effort to create an interest among the chemical producers in introducing these materials for propagation work.

In discussing the research at the

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3-oz. can 25¢—36 to cs. wt. 12 lbs.	\$ 6.00 case
7-oz. can 50¢—24 to cs. wt. 14 lbs.	\$ 8.00 case
1-lb. can \$ 1—12 to cs. wt. 16 lbs.	\$ 8.00 case
10-lb. drum \$ 8—individually packed	\$ 5.55 each
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institute, he pointed out that studies are directed toward establishing the effect of growth regulators on any plant response and not necessarily toward practical applications. He stressed the point that root-promoting substances are not necessary in rooting woody plants, but that the chemicals generally induce more and larger roots in less time. Also, there are more root initials formed with the use of plant hormones, and losses in potting up such cuttings are generally less. He stressed several times in his talk that the use of hormones is not a cure-all, but only an aid in propagation. He pointed out, too, that experimental propagation work at Boyce Thompson Institute is usually concerned with the rooting and not with the subsequent growing of the plants.

Results Variable

He noted that the propagation factors of cutting medium, temperature and humidity all are variable and can give varying results from season to season and from one area to another. Dr. Hitchcock stressed the fact that cuttings should be planted and not pounded into the propagating medium. Mist propagation usually eliminates a great amount of the care previously required in propagating work and in some cases eliminates the need for growth-promoting substances. Dr. Hitchcock believes it is unlikely that there will be any new substances available in the future to aid in the rooting of plants. He also stated that there is no method of using growth-promoting substances that is 100 per cent effective for all types of plants.

Dr. L. C. Chadwick, Ohio State University, Columbus, O., then gave a brief report on the use of growth-promoting substances in the propagation of hardwood cuttings. He said that there is considerable variation in the reported results of tests in this field, but that most commercial propagators report no stimulation with the use of growth promoting substances on hardwood cuttings.

Question Box

The annual plant propagation question box was moderated by Dr. John P. Mahlstedt, department of horticulture, Iowa State College, Ames, Ia., Friday evening. Throughout the meeting the question box was available for all members to drop in questions to be answered during this period. Under the direction of Dr. Mahlstedt, the feature has become one of the highlights of the meeting. The room was filled

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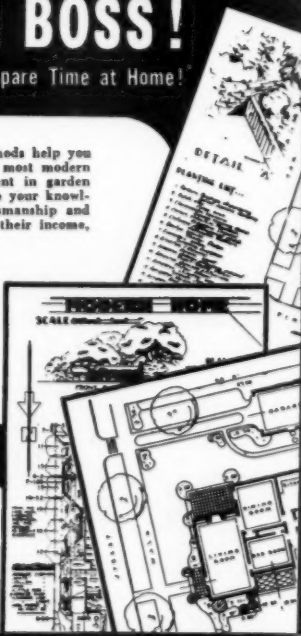
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with at least 200 members, waiting for the questions and the answers, which often resulted in heated discussions, adding interest to the program. Questions concerned sterilization, hormones, insects and diseases and plastic materials for structures. The scheduled time for the question box was two hours, but this year nearly three hours elapsed before the session ended.

"Dwarfing and Hybridization Techniques for the Plant Propagator" was discussed by Dr. Karl Sax, Arnold Arboretum, Jamaica Plain, Mass. Dr. Sax discussed the need for dwarf ornamental plants and fruit trees. Many of these plants are being produced by breeding new materials and also through the dwarfing effect of rootstocks. Dr. Sax illustrated his lecture with a series of color slides, showing the plants under discussion and methods and techniques used in grafting.

The Arnold dwarf forsythia is a plant resulting from a breeding program. Dr. Sax also showed slides of the Beatrix Farrand forsythia developed by him. *Prunus tomentosa* has been used successfully as a dwarfing stock for peaches and some plum varieties. *Prunus triloba* also has possibilities as a dwarf stock for plums. No satisfactory understock has been found for dwarfing cherries; however, work on this project is still being carried on.

Cotoneaster has a dwarfing effect on hawthorn. Tree lilac has a dwarfing effect on common lilac, but is not too satisfactory. Crimson King Norway maple and red maple can be dwarfed on silver maple roots. Dr. Sax said that dwarfing is not new, for in 1665 John Reed reported on interstock grafting to induce dwarfing.

Apple varieties are dwarfed when grafted on Malling IX. Grafting techniques to produce dwarfing were illustrated and discussed by Dr. Sax. He described bridging of understock, interstock grafting, bark conversion and tying knots in the root stock.

Unusual Plants

Saturday afternoon's session dealt with the propagation of unusual plants, the moderator being Roger Coggeshall, Arnold Arboretum, Jamaica Plain, Mass. With the aid of color slides, Mr. Coggeshall showed many interesting plants at the arboretum and discussed methods of propagation. Some of the plants discussed were Cornell pink azalea, a beautiful pink seedling of *Rhododendron mucronulatum*, which can be propagated by softwood cuttings in

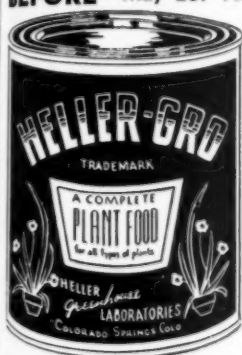
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July, and *Viburnum tomentosum* roseum, a pink-flowered viburnum. Softwood cuttings were recommended for propagating *Stewartia koreana* and *pseudocamellia*, both 2-year seedling plants. Slides of both species were shown, and the differences between them pointed out. *Stewartia koreana* has the larger and more attractive flowers.

Ilex yunnanensis, a red-fruited, small-leaved holly, was reported to root from cuttings in the winter. Two new mahoberberis — *aquisargenti* and *aquichenausti* — were shown. Both were recommended, but they are not readily available at the present time. Grafts of *Pinus burgeana*, a beautiful white-barked tree, were also discussed.

Richard Fenicchia, propagator, Rochester park department, Rochester, N. Y., was the second panel member to speak on unusual plants. Mr. Fenicchia said that the Rochester park staff is continually searching for new plant materials and is carrying on hybridization work with lilacs, rhododendrons, viburnums and other plants. He also mentioned the various propagation methods used, such as open-bench grafting of conifers, dormant grafting of lilacs and softwood cuttings for franklinia. Color slides were shown of many in-

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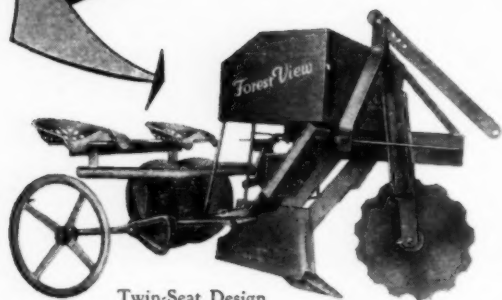
A report of the 1957 field trials was given by the committee chairman, Dr. John Mahlstede. Mimeographed copies of the reports, available only to members of the organization, covered the field trials on photoperiod studies and gibberellic

acid. The annual business meeting was then held, with Louis Vanderbrook presiding.

At the annual banquet Saturday evening, Dr. William Snyder, retiring secretary of the society, was presented with a set of luggage. Hugh Steavenson, the new president, presented an honorary gavel to Past President Louis Vanderbrook. Ed-

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ward Scanlon, 1956 president of the society, gave an illustrated talk on "Sleuthing for Specimens from Moscow to the Mediterranean." He showed many interesting uses of street trees in the various countries visited. Two particularly interesting slides depicted the planting of two "Friendship Trees," which Mr. Scanlon took with him for planting in the Friendship park at Moscow and at Berlin, Germany.

MARYLAND MEETING

[Continued from page 9]

tinued. Some organic matter in fertilizers is still a necessity. This can be in the form of manure, crab or fish scrap, tankage or poultry litter.

Such fertilizers as azalea foods contain, besides other items, cottonseed meal and chelated iron. The chelates have a great place as plant foods because the iron in them is so much more readily available than in other forms.

In discussing the role of phosphorus, Mr. Smith mentioned that the United States is fortunate in having about one-fourth the world's supply of this element. By chemical treatments, superphosphates running as high as 50 per cent in phosphorus, dry weight, can be obtained. In liquid form, as high as 70 per cent is available. A variety of forms of potash can be obtained; so the country is no longer dependent on foreign sources for that product.

Mr. Smith stated that he considered such secondary elements as calcium, sulphur, boron, manganese and magnesium fully as important as some of the primary elements. He predicted that in the future these secondary elements would be indicated on the fertilizer package label, along with the nitrogen, phosphorus and potash content. He estimated that there would be 10 or 12 of these items.

In closing, Mr. Smith prophesied that some of the big changes in the fertilizer field will be more foliar feeding, more pesticides mixed with fertilizers, greater fertilizer demand by the increasing suburban trade and a greater use of liquid fertilizers. The advantage of the liquid fertilizers, Mr. Smith concluded, is the ease of including pesticides.

Frank R. McFarland, technical sales director, Miller Chemical Fertilizer Corp., supplemented his predecessor's talk with a discussion on the correct uses of fertilizers. He advised the nurserymen to know their soils, their plants and their plant food needs. The subject of soils, he said, is extremely complex.

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acre weigh approximately 2,000,000 pounds. Continuous improvement of this top layer would also improve the lower soil areas. The use of organic matter as a source of nitrogen for plants is not enough for the task, Mr. McFarland said. Only four pounds of nitrogen is released from a ton of barnyard manure the first year, and two pounds per ton the second, he cited.

Deficiency Symptoms

Deficiencies in nitrogen show up in the slow growth of plants, a decrease in greenish color, yellowing, small stems and less branching. Whitish spots near leaf margins, scorching of leaf edges and ruffled or cupped leaves in legumes used for cover or green manure crops indicate a need for potassium.

Phosphorus deficiencies show up in smaller plants, lower yields of grain, delayed maturity and shrunken pods or grains. A need for magnesium is indicated with a streaked appearance of the leaves, light green showing between plainly visible veins, purplish-red leaves with green veins and yellowish-green mottling and shedding of the older leaves.

Iron deficiency shows up with a decrease in green coloring, yellowing and fading of the leaves to an



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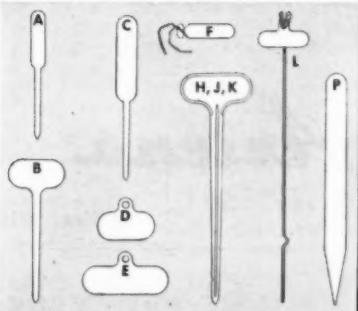
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ivory color, dieback of branches and death of the plants.

Mr. McFarland concluded with some rules to be used with discretion in applying plant foods. For lawns or turf, use 500 pounds of 10-10-10 per acre. Use one pound of 10-10-10 per inch of trunk diameter for trees and shrubs or one-eighth pound for each foot of total top diameter for shrubs or bushes. He advised keeping the fertilizer away from the trunks.

For foliar feeding, the speaker suggested Nutri Leaf 60 at one pound to 20 gallons of water. Two or three applications at 5 to 7-day intervals should be made for best results; the plants should be wet thoroughly. Insecticides and fungicides can be included in this foliar spray if needed. For the ground feeding of potted plants he recommended one pound of Nutri Leaf 60 to 100 square feet of container plants, with weekly applications until the desired results are obtained. Less frequent applications are needed for containers handled under dry conditions.

Soil Testing

Dr. Frank L. Bentz, Jr., extension soils specialist, department of agronomy, University of Maryland, ended the morning program with a discussion on the preparation and testing of nursery soils. One should take a year or more, Dr. Bentz stated, to get soil in shape before planting nursery stock in the field. Plant food should be adequate, the soil in good tilth and the weed problem at a minimum. In getting soil in shape, one should consider the field in its entirety. The control of soil erosion, the need for strip cropping, terraces and sodded waterways should be carefully checked into.

Despite the inconvenience of making careful soil tests, Dr. Bentz said, that is one task that all nurserymen should do periodically. Practically all states have services where soils may be tested at little or no cost. While it may take a little time to get a good sampling of the nursery soils, he mentioned, this should be done, since the results of any tests will be no better than the samples submitted.

Soil Characteristics

The importance of soils in good tilth cannot be overestimated. Such soils work easily, stay in good condition after heavy rains, make seedling easy and prevent death of seedlings because of hard crusts that form on soils in poor tilth. Drainage is improved, soil erosion is lessened and the aeration of the soil is greater



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in soils of good tilth, Dr. Bentz added.

The poor tilth of nursery soils results when the ground is worked when it is too wet, worked too dry, cultivated so frequently that all the organic matter is broken down or removed and receives no lime and fertilizer applications. These conditions, however, may not hold true for sandy soils, Dr. Bentz reported.

Good tilth depends essentially on the soil particles' being bound together with organic matter. As the organic matter decomposes, it ties the soil elements together in relatively stable particles, thereby forming air and water spaces.

It should be emphasized that only organic matter that can undergo decomposition in the soil is beneficial in forming good soil aggregates. The ideal way to increase the organic matter content in the soil is to add as much as possible without excessively loosening the soil and thereby overstimulating decomposition by the soil micro-organisms. Crops that are best suited for this purpose are hay and pasture crops. The application of lime and fertilizer produces more roots and consequently helps to produce better soil tilth. Nurserymen should, Dr. Bentz said, try to get their fields in grass for at least one year. Clip to control weeds, he advised.

The morning meeting ended with the appearance of President Gilbert Gude, who managed a brief recess from his duties on the state legislature. He expressed his appreciation for the fine work of the program committee under trying conditions.

C. Willard Stoner, Westminster Nurseries, Westminster, Md., first vice-president of the state association, presided at the afternoon session.

The analysis of nursery costs, setting up a bookkeeping system and methods of taking depreciation for income tax purposes were discussed by Prof. Leroy L. Lee, department of business administration, University of Maryland. Professor Lee's talk will be published in a future issue of the American Nurseryman.

Richard B. Carson, supervisor of adjustments for Woodward & Lothrop department stores, Washington, D. C., talked about adjustments and customer good will. "We recognize," he started off, "that the future growth of our business is largely influenced by the manner in which we handle our customers' dissatisfactions and requests for services. We realize that customer dissatisfaction is real as long as he feels that he has been unfairly treated or has not received the degree of utility he

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rightfully expected. Therefore, all our personnel are expected to assume that customer complaints are made in good faith unless definite circumstances indicate otherwise."

Mr. Carson explained his firm policy to handle returns and adjustments in a manner to satisfy the customer. This policy is a liberal one. Adjustments are never delayed, postponed or canceled because of differences of opinion of store members, whose accounts must share the burden of these adjustments. In short, complaints are treated first and internal store problems solved afterwards.

Returns are a real problem, he said, and constitute an operation of considerable magnitude. The over-all return ratio is probably about 9 per cent of total sales. In ladies' ready-to-wear, the ratio is around 14 per cent, and, in certain lines, even higher. Management is constantly seeking ways and means of curbing excessive returns; neglecting to do this could be costly. However, important the expense factor may be, Mr. Carson pointed out, today the firm is concerned only with the customer angle and the good will that can accrue from his regular purchases. While there is probably no accurate way to determine the cost of obtaining new accounts, it is a large one; any trifling expense to retain good will and loyalty by adjusting misunderstandings is small in comparison.

Store executives recognize the value of advertising and devote large sums to display, newspaper space and radio and television time. However, Mr. Carson recalled, it is almost unanimously conceded that the most valuable type is word-of-mouth advertising, which originates from satisfied customers.

Handling Complaints

The Woodward & Lothrop policies on curbing excessive returns are set up with a constructive aspect. Customers are not required to go through a great deal of red tape, wait in line, answer pointless questions or visit three or four places in the building to complete a return transaction.

No business can be run without some mistakes being made. Sooner or later a complaint will occur, and some complaints are going to be unreasonable. Human nature is queer; trifles often become exaggerated in some minds.

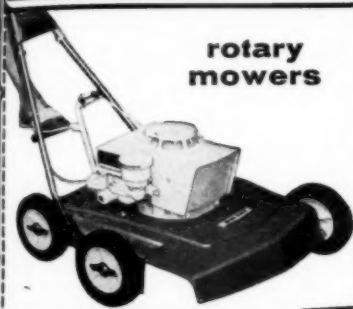
Trivial complaints can be more disturbing and harmful than serious ones. Serious complaints are likely to be recognized more quickly, and steps can be taken to prevent their

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recurrence. On the other hand, minor complaints occur time and time again because they seem so trivial no one takes the trouble to check them. One has to learn how to spot unreasonable persons; then to use caution and tact in mollifying them. The question of handling complaints may be resolved by attempting to use these complaints to sell one's self and his company to the complainers.

First, Mr. Carson explained, let the customer have his full say. Encourage him to talk. A person with a complaint is full of emotional tension; he is all steamed up. Let him blow off this steam and talk himself out. Lend a sympathetic ear. Listen closely; lean forward mentally. Thus one drains off his resentment, softens his anger and thins out his antagonism.

Admit Errors

If one is wrong, admit it. Offer no alibis. Do not cover up. This puts the complainer more at ease and helps elevate his ego. The most difficult thing for the salesman to do is to accept blame, to admit it was his fault. He fears the customer or the boss will hold the fact against him. This is all wrong, for, psycho-

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logically, when one admits his mistakes, he disarms the other person.

No matter how a complaint is solved, there will still be a sour taste in the customer's mouth. So, when it comes to sweetening the customer, don't be a piker. Give something a little extra. Find out what the complainer wants and go him one better. Insurance adjustors know that when they say, "I'll leave it up to you," rather than, "I'll tell you what I'm going to do," complaints are usually settled for much less, with the other person twice as happy about it.

Another trick of the trade in handling complaints, Mr. Carson related, is to agree quickly. Do not scratch your chin and hem and haw, for when you do give in, it will not carry weight. A hesitating, half-hearted effort to make amends can leave a taste as bad as an outright refusal.

Mr. Carson mentioned the vast amount of good will that can accrue to a company by the proper use of the telephone. Contacts with customers over the telephone directly affect that customer's good will and future business. Voices should be distinct, assured and courteous from the beginning. Use the customer's name often during the conversation and do not let him wait, wondering if he is still connected to the store. Avoid abrupt answers and slang expressions.

The impression made over the telephone is important. Voices over the wire reflect personality. When people meet face to face, poor diction often may be excused because of a winning smile or a warm personality, but over the telephone, the voice, and voice alone, is the speaker.

There is no price tag on good will. It is the cheapest advertising for a company, Mr. Carson advised.

Dr. A. Piringer, plant physiologist, United States Department of Agriculture, plant industry station, Beltsville, Md., concluded the day's program by summarizing the station's experiments on the uses of supplemental light on woody plants. He cautioned the nurserymen to become thoroughly familiar with the light requirements of the plants in their greenhouses, salesyards and garden centers in order that no adverse effects will result from evening operations or sales transactions. These requirements, Dr. Piringer said, are also important to consider when making landscape plans and plantings for gardens, if considerable night activities with supplemental lighting are contemplated.

The meeting ended with a short business session and the appointment of committees for the year.

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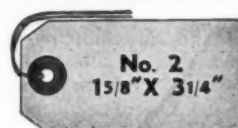
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PLANT PATENTS

The following plant patents were issued recently, according to Rummel & Snow, Chicago patent attorneys:

No. 1679. Chrysanthemum plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of chrysanthemum plant of the decorative type, characterized particularly as to novelty by the attractiveness of its plant and flowers, the large size and firmness of its flowers, the long and narrow form of its flower petals and the distinctive pale rhodonite-pink general color tonality of its flowers, with the margins of the individual petals edged with rhodonite pink.

No. 1680. Chrysanthemum plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of chrysanthemum plant of the decorative type, characterized particularly as to novelty by its vigorous and hardy habit of growth, the attractiveness of its plant and flowers and the distinctive carmine general color tonality of its flowers.

No. 1681. Seedless grape. Frank M. Schwab, Mankato, Minn. A new and distinct variety of grape plant, characterized by its seedless fruit; the productivity and hardness of the plant, and the sweetness, high flavor and tender skin and flesh of its fruit.

No. 1682. Rose plant. Eugene S. Boerner, Newark, N. Y., assignor to C. W. Stuart & Co., Newark. A new and distinct variety of rose plant of the large-flowered polyantha class, characterized particularly as to novelty by its low-growing, bushy and spreading habit of growth, with horizontal and pendulous branches; its red-colored edging on the new growth; the dark, glossy green foliage, and the good resistance of the foliage to black spot and mildew. It is further characterized by the distinctive, clear yellow of the flowers, which holds well throughout the flower life; the fully double form of the flowers and their habit of rarely showing their stamens and pistils, but having their outer petals tightly rolled outward and reflexing to the stem and forming a ball-like bloom when fully open, and the brilliant red color of the peduncles.

No. 1683. Rose plant. Eugene S. Boerner, Newark, assignor to Jackson & Perkins Co., Newark. A new and distinct variety of rose plant of the large-flowered polyantha class, characterized particularly as to novelty by its vigorous growth, glossy foliage, the rich empire-yellow color tonality of its flowers and their good color retention to the end of the blooms. Its flowers have an unusual and strong fragrance.

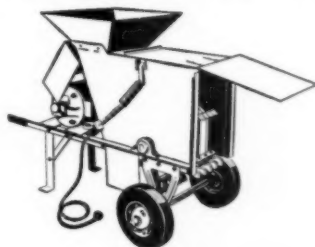
No. 1684. Rose plant. Eugene S. Boerner, Newark, assignor to Jackson & Perkins Co., Newark. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the vigorous habit of its plant growth; the graceful form of its buds and open flowers; the empire-yellow color tonality of its flowers, combined with the Eugenia red of the stamens, and the delightful, strong and long-lasting fragrance of its flowers.

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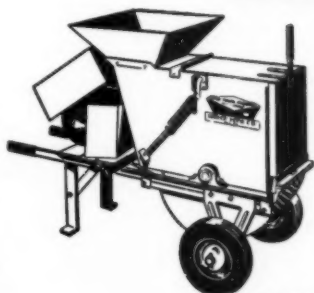
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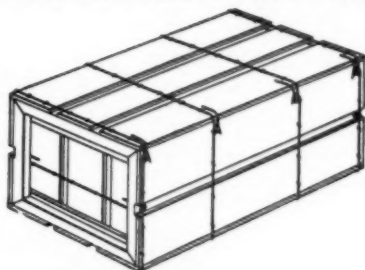
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Values of Soil Heating

By Howard C. Brown

California State Polytechnic College, San Luis Obispo

The value of soil heating has long been recognized in the horticultural industry. Early methods of heating soil involved the use of animal manure or flues through which hot air circulated. Both of these methods have since become obsolete in commercial horticultural production in California.

Today there are two practical methods of providing bottom heat. The first is by means of steam or hot water pipes under the benches or hotbed. This system, although expensive to install, is practical for the grower who has a steam or hot water boiler to heat his nursery. Once the installation is made, the maintenance and operating costs remain low. It is more difficult to control the temperature accurately with these systems than with electric units, but the range is accurate enough for good plant growth response. The second and by far the most popular method of supplying bottom heat is through the use of electricity.

Bottom Heat Uses

One of the early electric units involved a resistance wire on a rigid metal frame that slid like a drawer into a false bottom under the greenhouse bench. This was found highly impractical and soon gave way to better systems. In order to determine the most practical system for a given situation, it might be well first to list the uses of bottom heat in plant production. Listed in the order of their increasing economic importance, these might include: Space heating, callusing of grafts, germination of seeds and rooting of cuttings.

The use of bottom heat for space heating is limited to small greenhouses. It is ordinarily utilized where no other method of heating is applicable and is most practical where electricity rates are low. In the production of grafted nursery stock, especially conifers, the value of bottom heat has been demonstrated repeatedly. This use also is of limited economic importance in California nursery operations, however, because of the relatively small amount of grafting done in the state's nurseries. It is usually used in conjunction with small enclosed grafting cases.

In general, most florists' and nursery crops germinate at a higher tem-

perature than is the optimum for their later growth. It is both practical and profitable, therefore, to utilize bottom heat in the bench beneath flats of germinating seeds. Such plants as zinnias, marigolds, snapdragons and begonias, to mention only a few, benefit from a 5 to 10-degree increase in temperature during the germination stage.

Rooting Cuttings

The fourth and major use of soil heating is in the rooting of cuttings. What the grower hopes to accomplish with bottom heat is the stimulation of root growth and the inhibiting of top growth until the roots are well developed. This can be best accomplished by maintaining a cool greenhouse temperature (a minimum night temperature of 60 degrees, for instance) and a warmer soil temperature (65 to 68 degrees). Of course, the greenhouse or hotbed temperature will climb much higher during the daytime hours than does the soil temperature, but

it is the minimum night temperature that exerts the greatest influence on root initiation and development.

The value of the heat depends largely upon the production program involved. If the nursery is involved primarily in the production of ornamentals from hardwood cuttings and rooting time is of no great importance, then the use of bottom heat is not justified. Such an operation would involve sticking the cuttings in a coldframe in the fall and growing them on in the frame until they are well established.

In most propagation operations, however, the time involved in rooting is becoming increasingly important. There is a growing trend toward the use of short hardwood cuttings forced under greenhouse conditions. In such an operation, time is a major factor and, with greenhouse bench space costing \$2 or more per square foot per year, a saving of four weeks or more in rooting time means a considerable decrease in cost per unit.

Propagators have for years agreed that soil heating is of real value in the rooting of semi-hardwood or half-ripe cuttings, and it becomes increasingly important as the use of mist propagation increases. The bottom heat is needed to offset the



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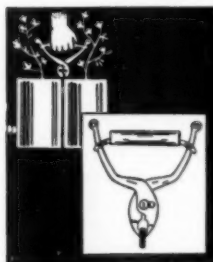
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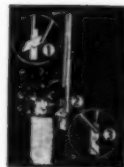


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cooling effect of the additional moisture in the propagating medium.

Softwood Cuttings

The value of soil heating in the rooting of softwood cuttings is more controversial. Generally these cuttings are taken during the summer season and are rooted at a time of year when solar heat is available in good supply. The problem is usually how to cool the greenhouse, not how to heat it. Under such conditions, a

rapid rooting usually results if moisture and humidity can be maintained at the optimum level. However, when the factor of constant or intermittent mist is added, a definite benefit occurs through the use of bottom heat. I am convinced that soil heating is worth the cost in an area such as San Luis Obispo on a year-round basis.

Actually, one of the main arguments in favor of soil heating is that it increases the benefits derived from

other rooting aids, such as hormone treatments and the application of mist to the cuttings. The propagator who deals mostly with hardwood cuttings in coldframes, of course, does not use mist nor, in most cases, hormones. The use of one of these three rooting aids without the other two would probably have little effect on his program.

However, the average California propagator of nursery stock usually handles his cuttings in a glasshouse

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or in a closed bench. By maintaining a relatively high soil temperature, he can increase the effect of hormone treatments and supply the stimulus necessary to gain full benefits from the application of mist.

Lead-Covered Cable System

The resistance wire covered by a solid lead sheath has been a popular soil-heating device for a number of years. It is simple, easy to install and long lasting if properly maintained. It can be purchased either as bulk cable or in a kit consisting of a cable with an electrical connection attached and a thermostat. One of the most popular kits, and one practical for the small grower, includes a thermostat and two 60-foot lengths of cable. It operates on 120 volts and each cable pulls 400 watts.

To afford most efficient heating, the cable is bent to form parallel strands not more than seven inches apart nor more than three inches from the outside edge of the bench. The cable is imbedded in sand or vermiculite in the bottom of the bench and is covered by 1/4-inch hardware cloth. This cloth serves two purposes. First, it protects the cable against injury from sharp objects, and, second, it distributes the heat evenly through the bench. The rooting medium or flats of cuttings are placed directly on top of the cloth. Accurate temperature control is obtained through the thermostat.

The useful life of the cables and controls is almost indefinite if they are left installed. With frequent moving of the cable, however, its life is considerably shortened. The horticulture department of the California State Polytechnic College, San Luis Obispo, has some cables that have been in constant use for 10 years. I do not have recent figures on the cost of operations, but during 1947 it cost an average of \$1 per month to maintain a 4x40-foot concrete hotbed at a night temperature of 60 degrees. We are currently conducting studies in the horticulture department on the cost of operating the lead-covered cable under greenhouse conditions.

The limiting factor in this system of heating is the original installation cost. Once the cable is installed properly, there is little maintenance necessary. We have experienced only two sources of trouble. The commonest is breaking the lead sheath through excessive handling or use of a sharp object. The second is corrosive action caused by a sphagnum rooting medium. Apparently the high acidity causes decomposition of the lead. In our case, the

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whole sheath became extremely brittle after only a year of use. Once this cable was moved, the sheath broke and became worthless.

Plastic Cable System

Available at a much lower cost per foot is a plastic cable. During a recent visit to the Buena Park Greenhouses, La Habra, I saw an installation involving the use of 1,400 feet of plastic-covered cable operating on a single thermostat. The total cost of this equipment was only \$79.40—\$48.60 for the cable and \$30.80 for the thermostat. Bob Weidner reported that the greenhouses had obtained good results with the plastic-

coated cable. It should last as long as the lead-covered cable if it is installed properly and handled with ordinary care.

For information on how to install the plastic cable, I contacted Merritt Thompson, of Southern California Greenhouse Mfrs. His recommendations are as follows: "1. Nail 1 x 2-inch wood cleats crosswise in the bench on 4-foot centers. 2. Fill a ¾-inch space between bench and cable with Perlite for insulation and drainage. 3. Firm two inches of sand on top of cable and Perlite to distribute heat and eliminate hot spots. 4. Set flats directly on sand. 5. If bulk rooting medium is used, place a lay-

er of Saran plastic screen between sand and medium for easy separating later."

Low-Voltage Heating

Low-voltage heating has been used in Europe for a number of years but has received little notice in the United States. It involves the use of a transformer to reduce the regular line voltage to 30 volts. Working with the low voltage, a nurseryman cannot possibly get a shock, as might occur were he using 120 volts. A No. 8 galvanized steel wire is used for the heating element. A regular thermostat is used, and installation of the wire is the same as



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described for the plastic-covered cable. This system presents two advantages: The safety factor of the low voltage and the low cost of installation, due to the use of bare wire.

A suitable transformer is manufactured by the Allis-Chalmers Mfg. Co., Milwaukee, Wis. It is called the H D transformer, 1-3 kva, single-phase, 60-cycle, 150-degree rise, self-cooled dry-type, high-voltage 120—low-voltage 30. The cost is approximately \$75, and the unit can provide heating for 600 square feet of bench space.

The use of bare wire heating shows promise and should be investigated.

Soil heating should be considered as a tool for the propagator, most effective when used in conjunction with other propagating tools. It will not compensate for poor selection of propagating material nor poor management. A propagator who has little success without bottom heat will probably have little success with bottom heat. However, one who has good success without bottom heat could very possibly have greater success with it.

ROOTING UNDER PLASTIC

[Continued from page 18]

ed that on a bright January day, temperatures in a house of this type may rise to 95 degrees and that one apparent difficulty resulting from this warm daylight temperature is that excessive top growth is forced.

Heating

If a 2-pot kerosene space heater, which gives about 80,000 B.T.U.'s, is used, it is possible to keep the night temperature in a 12x52-foot house at 70 degrees, when the outdoor temperature is about zero. Mr. Van Hof stated that, when one is using such a heater in a plastic greenhouse, it is necessary to keep the temperature high, in order to keep the sand at 60 degrees, and added that he has grown cuttings of taxus, juniper, thuja, retinospora and ilex and seedlings of pieris and azalea successfully by this method. Mr. Van Hof remarked that the light loss through the plastic seemed to be of no consequence.

He cautioned that, with the use of hot-air heat, special care should be taken that the rooting medium is kept moist, since sand tends to dry out rapidly near the sides of the plastic house. He also noted that an advantage of the plastic-type house over the typical masonry and glass type is that the propagator may root many additional cuttings by

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using the space underneath the benches to hold flats of cuttings. As long as these are close to the outside plastic wall, the cuttings will root just as well as those in the bench.

In answer to a question concerning the wintering of plants propagated in the outdoor plastic-covered beds, Mr. Van Hof said that most of the plants, if hardened off sufficiently, should winter over in the same beds. After a hard frost, the protective shades may be replaced for the winter. However, he did not recommend growing taxus in these outdoor beds, nor using sand in them as rooting medium, as it dries out readily.

DISEASES OF STOCK

During the growers' sessions at the Connecticut nurserymen's short course held at Storrs, Dr. Spencer Davis, extension specialist in plant pathology, Rutgers University, New Brunswick, N. J., talked January 23 on "Diseases and Troubles of Nursery Stock." He said at the start that while nurserymen usually think of all plant troubles as being due either to insects or disease, it had been his experience that many troubles were what he called "too" problems — too much or too little of something (heat, cold, moisture or fertilizer) or too high or too low pH.

Dr. Davis then explained an unusual series of colored slides illustrating some of these "too" problems. First shown were soil areas where only two or three inches of soil cover a rock base and where, during a dry summer, early drying of plants will occur in conditions of too little moisture.

Next shown was a row of lined-out taxus, wherein the more upright forms were drying while those that were more spreading or bunched were all right. Since the affected plants were blackened at the soil line, they appeared to have a fungus disease. Actually, the hot afternoon sun heated the unshaded soil at the base of the upright plants to a temperature that turned the stems black at the soil line.

Select Strongest Types

Commenting on a slide showing five different species or varieties of ilex, Dr. Davis related that they had all been fall planted two years ago. When he was called to look at these plants, it had been assumed that some disease was cankering the bark and causing Ilex crenata microphylla and convexa to die, whereas Ilex glabra and Ilex crenata rotundifolia had come through the winter in good condition. The species Ilex

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1-pint bottle	2.25	6 to case	8.10
1-quart bottle	4.00	6 to case	14.40



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	Retail	Packed	Dealer
1-oz. bottle	\$0.50	24 to case	\$ 7.20
4-oz. bottle	1.25	12 to case	9.00
1-pint bottle	3.00	6 to case	10.00
1-quart bottle	5.25	6 to case	18.90



PRATT'S SUMMER SPRA-OIL

A miscible white oil foliage spray for use as an ovicide on evergreens, palms, citrus, azaleas and other ornamental, shade and flowering shrubs. Controls red mite, scale, crawlers, mealy bugs, etc.

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1-quart bottle	1.25	6 to case	4.50
1 gallon	3.00	4 to case	7.20



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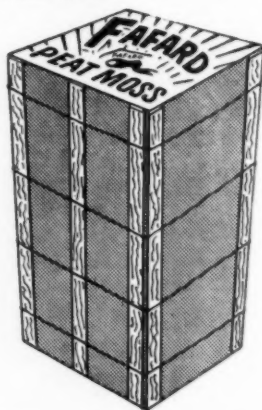


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crenata showed some injury, with some of the plants being partially brown. Investigation disclosed that liberal quantities of manure had been applied to the soil early in the summer, and then a drought continued until early September. When rains came, the plants started to grow, and that winter there was almost 100 per cent loss of varieties convexa and microphylla.

Dr. Davis concluded that the plants were being grown on marginal land, not from the standpoint of fertility, but of cold pockets, which affected types could not tolerate. He suggested that nurserymen carefully inspect their crops after a particularly bad winter and rule out from their plantings those varieties severely injured by cold conditions.

Showing a slide of a row of sheared taxus growing on either side of a flagstone walk, Dr. Davis pointed out what at first had appeared to be a disease affecting one row. Tests with a soil auger on the unaffected row revealed dry soil to a depth of 18 inches, whereas the other row, only about one yard away, showed a wet condition of the soil even in the top six inches. Taxus, like the rose, will not tolerate wet feet. In connection with this condition, the speaker cited an interesting experiment wherein it was found that if taxus roots were submerged in water for about 64 hours, the plant would die if the following summer were dry.

Case of Varied Soil Balls

Another interesting "too wet" condition shown and described by Dr. Davis involved a 250-foot row of dwarf taxus planted in sandy, well-drained soil. Since the previous summer had been dry, the newly set plants had been heavily watered. When Dr. Davis was called, intermittent plants up and down the row had died. Investigation of the root systems revealed that all of the dead plants had roots completely rotted off and had a soil ball composed of a heavy clay, whereas the good plants in between had a sandy loam ball. The group of plants had come from several sources and had been mixed in the row, with the result that those which had roots encased in a ball of heavy clay received too much water.

Dr. Davis continued by pointing out that plants having leaves that had turned brown between the veins and around the edges would seem to lack moisture — a "too dry" condition. At the other extreme, he showed taxus plants with leaves

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which burned brown close to the twig while the outer part of the leaf stayed green, a symptom he has learned from experience indicates soil poisoning. He explained that when the plant lacks water, the part that suffers most is that farthest from the water supply, whereas when some form of poison is in the water absorbed by the plant, the part that first shows injury is that nearest to the water supply. In this particular case the injury was caused by material used to termite-proof a nearby shed, and some of the material somehow got into the soil and was taken up by the plants, a case of "too much" of something. Similar symptoms result from overflowed fuel oil around homes and from the salt used to melt snow, particularly around areas where a bus stops.

Regarding pH, Dr. Davis showed a slide illustrating the need for an acid-type soil and fertilizer for pieris. He described an example of a fertilizer labeled "for acid-loving plants such as rhododendrons, azaleas, andromeda, taxus, pine, hemlock, etc.," and then cited experimental work wherein ground limestone was applied to a row of taxus with favorable results, thus emphasizing that taxus is not a plant requiring an acid soil and should not be fertilized with that type of fertilizer.

Overdoses Fatal

More cases of "too much" were shown, in the first of which a grower attempting to control foliar nematodes weighed out too much sodium selenate to be applied to his chrysanthemum plants, with the result that the plants were dwarfed



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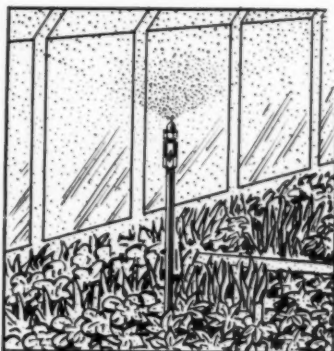
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and the blooms were unsalable. The second illustration involved creosoted wooden siding used on raised beds. When the sash were closed, the creosote fumes became toxic to the plants inside. The last "too" example was too much of the wrong spray material, in this case following the old expression "Bordeaux may help." But Dr. Davis warned against using copper sprays under conditions of cool temperature and humid weather and he reminded the nurserymen that better fungicides are available.

An example of fluorine gas injury on pines was shown. An injury resembling leaf scorch or tip die-back resulted from only two parts per million of fluorine gas affecting nursery plants six miles away from the source, a fertilizer plant which had the fluorine gas as a by-product. Dr. Davis mentioned that in his state the best indicator for presence of fluorine is the gladiolus, while the tomato plant serves best for indicating illuminating gas and 2,4-D.

Dr. Davis then presented a well-illustrated discussion of the diseases of nursery stock. To control nematodes in the soil around boxwood, he recommended putting in D-D before planting. For wilts on rhododendrons, he knew no chemical control, but he is compiling a list of varieties that are susceptible and therefore should not be planted by growers who have this wilt problem. Describing the brown lump symptoms of the bacterial disease, crown gall, on rhododendrons, he noted that one grower had evidently brought in the organism in a load of manure, and since there is no known control, he can only recommend changing one's cultural practices. For pink or white gall, a fungus disease on azaleas, he recommends that homeowners pick off and burn affected parts, whereas for a nursery, good control can be achieved with a single early spring (before growth starts) application of ferimate or ferbam. Another case mentioned was of a fungus which appeared on azaleas brought into a greenhouse to be forced into flower for valentine trade. In this instance, the plants were too crowded, and the control was to spread the plants and let air in between them.

Lilac, Dogwood Ills

For virus of lilac, Dr. Davis recommends destroying affected plants or at least tagging them in summer when the symptoms can be seen, so that cuttings will not be taken from



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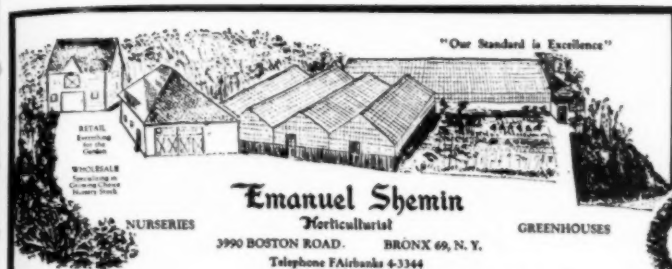
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December 20, 1957

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affected dormant plants. He also discussed gray leaf mold on dogwood, a fungus problem occurring when there is damp wet weather at the time the flowering period is over and the dead bracts fold down on the leaves instead of dropping off. The recommended control was a single application of one of the zinc materials, such as parzate or dithane 278, applied at the end of the blooming period.

Two diseases of hawthorns were discussed. For rust, he recommended a control consisting of three spring applications of ferbam. Regarding leaf blight on English hawthorn, he described the early symptoms of small black spots on the leaves followed by early leaf drop, with the possibility of blossoms at the end of September followed by late growth, which is killed by frost. His recommended control was spraying two applications of one of the zinc materials about 10 days apart when the buds first break in the spring.

Inasmuch as many nurserymen grow chrysanthemums, Dr. Davis concluded his interesting talk with mention of some of their diseases. To avoid verticillium wilt, one should buy resistant types. To prevent loss of bottom leaves, the

speaker recommended spraying with ferbam at 2-week intervals. He cited cases of plants treated with Bordeaux yielding 170 blooms per unit of count, as compared with over 300 with ferbate.

GIBBERELIC ACID

On the program for the annual Connecticut nurserymen's short course at Storrs, Dr. Howard G. Applegate, assistant professor of floriculture at the University of Connecticut, on January 22 presented an interesting account of "The Results of Research on the Effects of Gibberellic Acid." In a brief historical resume, Dr. Applegate noted that one of the earliest records of

the effects caused by gibberellin went back to the year 1809.

The Japanese call an affected plant "bakanae," which means foolish seedling. Gibberellin is derived from a fungus, which, when it attacks the roots of the rice plant, causes excessive top growth, resulting in a plant that is usually tall and thin, but apparently causes no corresponding increase in root growth. The leaves of such a plant are usually lighter green in color.

Dr. Applegate stated that in his experiment he employed a small, inexpensive insecticide sprayer for application of the substance and saturated the plant until the greatly diluted gibberellin began to drip from

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the leaves. The plants used in the experiment were cuttings stuck in a propagating bed of sand in March 1957. In June, 50 rooted cuttings of each of 11 different woody ornamental plants were selected by Dr. Applegate for the experiment. Of each group of 50 plants, 25 were potted into 3-inch clay pots and 25 into 3-inch fertilized plant bands.

A potting mixture composed of three parts soil, two parts peat moss and one part sand was used, with a small quantity of superphosphate and horn shavings added. All plants were grown in the greenhouse under similar conditions. In July and again in October, 1957, Dr. Applegate applied a gibberellin spray, diluted 100 parts per million, to approximately half of the plants growing in pots and half of the plants growing in bands. Gibrel, a product of Merck & Co., was the gibberellin preparation used. Growth measurements were made on January 21, 1958. The interesting results are given in the following table, in which are listed the percentages of increase in growth of sprayed over nonsprayed plants for each type of container:

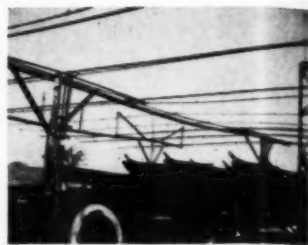
	Plant	Pots	Bands
Ilex crenata	50	63
Ilex crenata convexa	71	74
Ilex crenata microphylla	82	82
Juniperus chinensis		
pfitzeriana	23	22
Juniperus horizontalis		
plumosa	91	101
Leucothoe catesbaei	113	153
Rhododendron obtusum		
kaempferi	141	131
Sciadopitys verticillata	14	18
Taxus cuspidata	44	61
Taxus media hicksii	51	57
Tsuga canadensis sargentiana	...	0	0

Dr. Applegate noted that all treated plants except *Tsuga canadensis sargentiana* showed an increased growth as compared to non-treated plants and that no plant showed any deleterious effects due to the increased growth. He also noted that the plants grown in fertilized bands, whether treated or nontreated, had thicker stems and darker green leaves than their counterparts grown in pots. In closing, Dr. Applegate suggested that nurserymen desiring to try gibberellic acid on their plants do so on a limited experimental basis.

LIGHT TREATMENT

Dr. Sidney Waxman, assistant professor of ornamental horticulture at the University of Connecticut, then spoke on "The Photoperiod or Light Treatment in the Propagation of Woody Plants." With the aid of

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GROWERS: Harden off tender, fresh-dug stock the natural way. No shading necessary. See photo above.

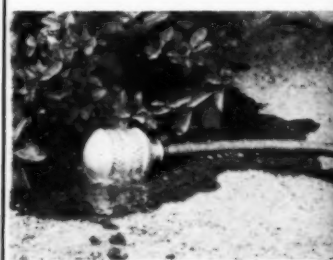
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PROPAGATORS: Fog is still the most economical propagation method.

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ROOTSPRED
ST. PETERSBURG, PA.

colored slides, Dr. Waxman described various types of responses to photoperiodic treatment as exhibited by different species of plants.

In his research, Dr. Waxman found that long photoperiods can prevent the inception of summer dormancy and thereby keep a plant in active growth. He also found that summer dormancy can be broken with supplemental light, provided functional leaves are present.

In another aspect of his experimental work, Dr. Waxman showed that cuttings of pink and white-flowering dogwood subjected to 18 hours of light daily, under mist, produced twice as many roots as those subjected to short photoperiods. He noted that this increased number of roots was not the only beneficial effect, however. When the cuttings were given supplementary light only during the rooting period (June 27 to July 28), there was an additional year's growth produced approximately three weeks after the cuttings were removed from the bench.

FTC HEARING

[Continued from page 7]

sent of the purchaser has been obtained thereto, prior to shipment or delivery, and the substituted item is of a similar variety of equal or greater value.

"(b) To falsely represent the reason for making a substitution."

The remaining provisions of rule 3 are acceptable in the form in which they are written, said Dr. White.

A request was made by a representative of the American Rose Society to leave in the first part of rule 3 (a), so as to prevent the shipment of No. 2 roses when No. 1 grade was agreed upon.

Rule on Standards

Rule 4 has been considered unsatisfactory since promulgation, said Dr. White. It was recommended that paragraphs 3 and 4 be stricken and new paragraphs be inserted in lieu thereof, to read as follows:

"When an industry member uses a size or grade designation for an industry product, for which a standard has been established that is generally recognized in the industry, such size or grade designation shall conform to the size and grade requirements set forth in such standard. American Standards for Nursery Stock as revised April 15, 1956, approved by American Standards Association, Inc., is generally recognized and accepted as the standard for the industry."

Dr. White called attention to a



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publication of the bureau of roads stating that bids will be accepted under American Standards for Nursery Stock in 22 states. The F. T. C. commissioner pointed out that standards can be accepted by an industry and still be deceptive. Mr. Horton, A. A. N. adviser, interjected the point that the standards were not established by the industry, but by governmental agencies.

A final trade practice proposal offered for consideration by the F. T. C. officials was a new rule as follows:

"False Claims of Membership, Deceptive Use of Seals, etc.:

"In the sale, offering for sale, or distribution of industry products it is unfair trade practice for an industry member:

"(a) To represent or claim that he is a member of any association or other organization when such is not the fact; or

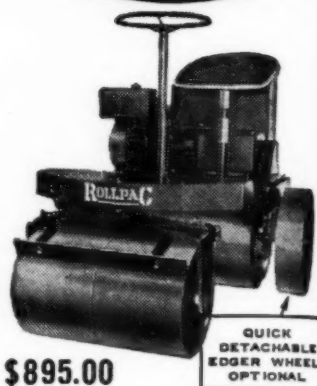
"(b) To use the seal or other insignia of any association or organization without the authorization of such association or organization; or

"(c) To use any seal or insignia which is of such form or design, or contains such wording as to simulate the seal or insignia which is issued by any association or organization for use by its members, when the use thereof has the capacity and tendency or effect of misleading or deceiving purchasers or prospective purchasers."

Bulb Deception

During the remainder of the morning, comments were solicited on the remaining rules, except rule 5, which was postponed for discussion until afternoon. No comments were forthcoming except on rule 11, "Deception as to Origin or Source of Industry Products." Gustave Springer, of the Holland Bulb Exporters' Association, New York, N. Y., stated that bulb dealers have taken advantage of the last clause of this rule, which reads, "It is also an unfair trade practice to advertise, sell or offer for sale an industry product of foreign origin without adequate and nondeceptive disclosure of the name of the foreign country from which it came, where the failure to make such disclosure has the capacity and tendency or effect of deceiving purchasers or prospective purchasers."

A certain dealer has imported a quantity of bulbs from Holland and another country, said Mr. Springer, and it is believed the bulbs were mixed. The only marking placed on the package was a windmill and a pagoda. The dealer could undersell



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competitors because he mixed in the cheaper bulbs. The public, said Mr. Springer, connects the bulbs with Holland. In a survey, 97 per cent of the people queried said tulip bulbs come from Holland.

Regulations necessitate marking cases and bags with the name of the country from which the merchandise is imported and also each individual item contained therein, unless it will harm the item. Thus, each individual bulb cannot be marked to show that it is a Holland bulb since it would be damaged in so doing. Therefore, when the bulbs are repackaged, there is no rule for marking the bag as to country of origin.

Mr. Springer urged the removal of the last clause under rule 11. If bulbs are mixed, they should be so labeled. The consumer, he emphasized, should know what he is buying.

Rule 5 Read

The afternoon session of the hearing began with a reading of rule 5 by Mr. Hall. First to comment was Downey Rice, Rice & King, Washington, D. C., one of the two legal advisers employed by Roses, Inc., to obtain a change in the wording of the last paragraph of the rule. He stated that rule 5 was controversial and can be misinterpreted and therefore is not needed since the other rules cover misrepresentation of products. Besides, added Mr. Rice, the nursery industry should not include the commercial greenhouse rose-growing industry. The rule is based upon a misconception of facts, as roses removed from greenhouse benches are not discarded, he emphasized. They are useful and can produce flowers.

Mr. Rice called upon Dr. Richard Lindstrom, assistant professor of floriculture, Michigan State University, East Lansing, who stated that calling a rose discarded connotes that it has no more usefulness. There is a specific use for a greenhouse rose when it is taken out of a bench, and it can give specific satisfaction.

Next to speak was Gurney Mann, E. G. Hill Co., Richmond, Ind., representing the Society of American Florists. He stated that the word "discarded," according to Webster's dictionary, means cast off; that is his objection to rule 5. He said greenhouse bench roses are not equal to field-grown roses, but have been sold satisfactorily and given good results. Mr. Mann stated that he would like to see the last phrase of the rule stricken.


L. S. Elder, Elder Bros., Indianapolis, Ind., presented slides to the

MEMO

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2 1/4-Inch

Quantity	Per 1000
3,000 to 18,000.....	(3,000, \$21.75) .. \$7.25
21,000 to 72,000.....	6.75
75,000 up	6.25

Sold in cases of 3,000. Minimum order 3,000, 35 lbs. per case.

3-Inch

Quantity	Per 1000
1,500 to 9,000.....	(1,500, \$19.88) .. \$13.25
10,500 to 49,000.....	12.25
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F. T. C. commissioner and the attorney to illustrate the satisfactory blooms which bench-grown roses can produce when planted outdoors. He stated that he has been selling bench roses for 30 years and has many satisfied customers.

Next called upon to speak, O. Krieter, gardener of the Angel Guardian Orphanage, Chicago, Ill., stated that the training school has 100,000 square feet of glass and grows 21,000 rose plants. After being used for cut flower production, these plants, he said, are sold to the public. The school, he added, has many satisfied customers. The F. T. C. attorney asked if the roses, when planted outdoors, required any special care, and Mr. Krieter replied no, not if grown under the proper conditions.

Rose President Speaks

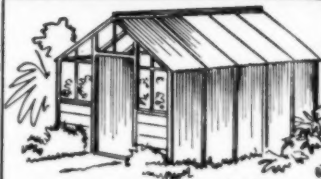
Appearing next was Robert W. Nichols, Watchung Rose Corp., Madison, N. J., president of Roses, Inc. He stated that his company produces 160,000 rose plants a year. He told about the activities of Roses, Inc., saying that it included 200 commercial greenhouse rose-growing members and 150 associate grower members. This membership, he added, represents about 80 per cent of the greenhouse rose-growing industry and grows 8,500,000 plants. Mr. Nichols said that some of these rose plants may be replaced after only one year of growth in the greenhouse. Accurate production records are kept, and when a plant does not maintain peak production, it is replaced. But, he added, the rose plant is still good and can produce many blooms. The plants have to be pulled out rapidly, said Mr. Nichols, and a distributor is called to take the plants. In the industry, he continued, 2,000,000 plants are replaced each year, representing about \$250,000 which can be obtained through the sale of these plants.

He read a telegram from R. E. Mapes, Baum's Home of Flowers, Knoxville, Tenn., which stated that this firm had been selling greenhouse-grown rose plants to the public for 30 years.

Because of rule 5 of the fair trade practice rules, said Mr. Nichols, most distributors have closed up their rose plant business, and this has meant a financial loss to the greenhouse industry. He thought the last phase of the rule should be eliminated, so that this type of plant would not have to be labeled as being discarded and having served its usefulness.

Eugene Dramm, Dramm Greenhouses, Elmhurst, Ill., stated that his company grows rose plants for three

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years in the greenhouse. The manetti understock becomes dormant and the rose plants develop their own roots. He emphasized that greenhouse roses can be grown outdoors just as well as nursery-grown rose plants.

Nurserymen's Views

The remaining portion of the hearing was devoted to the presentation of the nursery representatives' side of the picture. Dr. White first called upon Clark Kidd, who read a telegram from J. Awdry Armstrong, Armstrong Nurseries, Ontario, Calif., who urged retention of the rule. Another telegram from J. Frank Cornelius, Cornelius Nurseries, Houston, Tex., a member of the A. A. N. trade practices committee, also urged retention of the present rule.

A letter written by Dr. R. C. Allen, director of Kingwood Center, Mansfield, O., and past executive secretary of the American Rose Society, stated that manetti understock, which is used for greenhouse rose plants, has not served as a good understock for growing plants outdoors, as it does not go dormant for a long enough period. Thus, the letter continued, greenhouse roses are not so good as nursery-grown roses for planting in the home garden and are a poor investment for the public. Greenhouse roses are cultivated for a specific use.

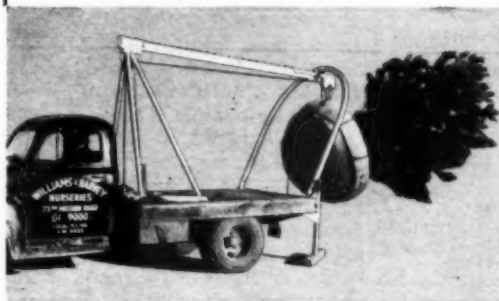
Appearing next was Tom Brennen, Montgomery Ward, Chicago, Ill., who stated that his firm is at a disadvantage, since it sells good-quality outdoor roses and has to compete with the lower-priced greenhouse roses.

Charles Drago, Consolidated Nurseries, Tyler, Tex., said the firm is composed of 35 to 40 growers of outdoor roses. He stated that the growers feel their income is jeopardized if greenhouse roses are sold and not labeled as such.

Proper designation is needed on greenhouse roses, said Vincent K. Bailey, J. V. Bailey Nurseries, St. Paul, Minn., or they compete unfavorably with field roses. The greenhouse roses, which have been used in cut flower production are lacking in many respects. The public is entitled to protection, he believed. Also, retail nurserymen are entitled to protection from having to compete against this type of rose.

Lawrence Bachman, Bachmans, Inc., Minneapolis, Minn., related that his firm, which is in the florists' business as well as the nursery business, used to grow all of the cut roses which it sold, but does not do this any longer. He related that manetti understock is not hardy when planted outdoors in his area. Thus, the firm

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All These Advantages

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All Parts Replaceable

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discarded the plants after using them in growing cut flowers.

Rose Sale

Mr. Bachman related that the garden center operated by his firm previously had offered 10,000 greenhouse rose plants as a sales leader. The firm graded the plants it received, eliminating 25 per cent of them, and packaged the remaining plants. Many customers were critical of the rose plants, he said, and only 5,000 of the plants were sold. The firm, he said, was flooded with complaints, and numerous adjustments had to be made. As a result of this sale, much good will was lost by the firm. Mr. Bachman emphasized that the public has to know what it is being offered.

Appearing next, L. R. Sjulín, Inter-State Nurseries, Inc., Hamburg, Ia., showed examples of various grades of nursery-grown rose plants and also specimens of greenhouse rose plants which he said had been obtained from a reputable florists' firm. Mr. Sjulín stated that he does not object to greenhouse growers selling discarded rose plants, but the public must know what it is buying. He pointed out that there is no grade on greenhouse-grown roses. Peace and Crimson Glory are two of the most popular outdoor rose plants, he stated, but they are not grown in the greenhouse. Likewise, he added, Better Times, a popular greenhouse rose plant, is not grown outdoors. Mr. Sjulín related that greenhouse bench roses are not sold when dormant and are thus a very perishable product. If rule 5 was changed, Mr. Sjulín said he could visualize a full-page advertisement in the newspaper saying, "Now you can purchase rose plants to grow in your garden which will produce the same blooms for which you paid \$5 a dozen in a florists' shop."

Court Cases Cited

Concluding the presentation for the nursery industry, Dr. White read a long paper into the record referring to numerous court cases which showed it unlawful to misrepresent merchandise. Other cases were cited which illustrated that labels are required to show that reprocessed articles are such. Further cases were referred to, pointing out that the federal trade commission has the power to investigate matters in order to protect the public. Dr. White said that the public is schooled to believe it is purchasing a 2-year-old nursery-grown rosebush when it is buying rose plants. He read a letter dated February 3, 1958, written by Don

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HOLLAND BURLAP SQUARES-3 Grades

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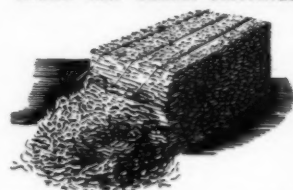
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- Heavy eyelet. Copper-wired.
- Attractive silver Aluminum, backed with yellow cardboard.
- Inexpensively priced:
1000 for ... \$16.00 250 for ... \$6.00
500 for ... 10.00 100 for ... 3.00

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AMERICAN NURSERYMAN
343 S. Dearborn St. Chicago 4, Ill.

Rowe & Associates, New York, N. Y., public relations counsel for Roses, Inc., which asked commercial greenhouse rose growers to contribute 2 cents per replaced plant in order to obtain legal council to fight for a change in rule 5 of the nursery fair trade practices rules. Dr. White also read a letter from Cashman Greenhouses in reply, advising Roses, Inc., against fighting for a change in the rule and showing that there was some confusion as to whether rule 5 meant that greenhouse roses had to be labeled as such. The F. T. C. attorney stated that the only way to get the message of rule 5 across to the public is to label greenhouse bench plants. He added that the disclosure must also be made in advertisements. Dr. White stated that the public believes it is purchasing nursery-grown plants unless the greenhouse rose plants are labeled.

Rule Change Recommended

Dr. White made a recommendation that the last paragraph of rule 5 be changed to read as follows:

"It is also an unfair trade practice to sell, offer for sale or distribute industry products which have been used in the commercial greenhouse production of cut flowers (e.g., greenhouse bench or bed-grown rosebushes) without adequately and non-deceptively disclosing in every type of advertisement or method of representation, and by label firmly affixed to such products, that such products were used in the commercial production of cut flowers and discarded after having served their usefulness in such production."

CHERRY LEAF SPOT

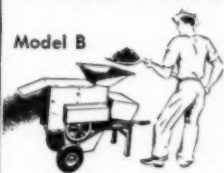
Experimental evidence yet to be fully confirmed by orchard use indicates that an important advance may be made in cherry leaf spot control with antibiotic sprays. Information about the new spray materials and the effectiveness of other fungicides now being used by cherry growers was reported recently by Dr. Michael Szkolnik, plant disease specialist at the state experiment station at Geneva, N. Y.

Research on cherry leaf spot control at the experiment station has shown that certain derivatives of actidione, an antibiotic, can control leaf spot systemically, he said. This means that when some of these materials are sprayed on cherry trees, they are absorbed by the leaves and carried forward to new growth, which they protect against leaf spot infection from within.

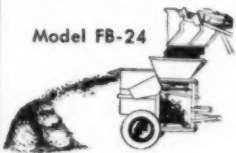
When perfected, these materials might be relied upon to provide satisfactory leaf spot control with only

Peak Performance + Power Efficiency

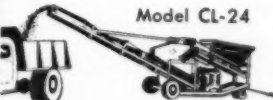
Model B



Model FB-24



Model CL-24



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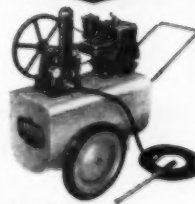
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Two Models . . .

531E—31 ins. high

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two or three sprays, instead of the current spray program which calls for five or six sprays.

MICHIGAN CHAPTER ELECTS

The Central Michigan Landscape and Nurserymen's Association, one of the regional groups that were chartered as affiliates of the Michigan Association of Nurserymen at the M. A. N. convention last January, recently elected Henry LaBrosse, Smith Tree Service, Inc., Lansing, as its first president. Jane L. Smith and Edwin E. Smith, of the same firm, were elected secretary-treasurer and M. A. N. director, respectively, while Robert Richter, Richter's Gardens Nursery, Lansing, was chosen vice-president.

Named directors of the newly affiliated association were Bernard Ward, M. L. Thomas, Robert Richter, Russell Moffitt and Forest Van Dorin, all of Lansing, and Henry Sorenson, Jackson. The group is participating with Michigan State University extension groups in presenting the second annual landscape clinic, to be held March 24 at Lansing.

J. L. Smith, Sec'y.

DEARING GRAPE RELEASED

A new perfect-flowered muscadine grape variety named Dearing was recently released for use in the south by the agricultural research service of the United States Department of Agriculture. A result of cooperative breeding work by the U. S. D. A. and the North Carolina agricultural experiment station, Willard, Dearing is described as a medium-size, translucent green, late-midseason variety, relatively sweet and tasty.

The new variety was named for Charles Dearing, retired U. S. D. A. horticulturist, who developed it, and is recommended for home vineyards and as a pollinizer of commercial pistillate muscadine varieties. Dearing is the latest-developed offspring of three chance seedlings with self-fertilizing flowers found years ago—one in the wild and two in experimental nurseries. Muscadines grown previously were dioecious, and interplanting of fruit-bearing pistillate vines with male vines was necessary for the setting of fruit.

ENTERING the nursery trade is Burt R. Schneider, Route No. 2, Sandusky, Mich.

GEORGE A. PETERS, of Conner & Amos, Charleston, W. Va., was guest speaker at a recent meeting of the Glenwood Heights Garden Club.

STOCK IN STORAGE READY TO SHIP

Refer to our Bulletin No. 2 for complete listings.

Nice Selection of Shade Trees:

- 200 **Crimson King Maple**, 8 to 9 ft., whips
- 400 **European Birch**, 8 to 10 ft.
- 500 **European Mountain Ash**, 6 to 8 ft.
- 1000 **Moline Elm**, 6 to 8 ft.
- 1500 **Niobe Weeping Willow**, 6 to 8 ft.
- 300 **Norway Maple**, 8 to 10 ft.
- 1000 **Pin Oak**, 6 to 8 ft.

Bushy, Well-rooted Shrubs:

	3 to 4 ft.	2 to 3 ft.	18 to 24 ins.	12 to 18 ins.
3000 Cornus alba sibirica	X	X	X	X
1000 Cornus stolonifera flaviramea	X	X	X	X
15,000 Hibiscus , in variety		X	X	X
2000 Hydrangea paniculata grandiflora		X	X	X
1500 Lonicera zabeli	X			X
3000 Philadelphus virginialis	X	X	X	X
4000 Viburnum opulus sterilis		X	X	X

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5 YOU PROFIT FROM CAREFUL GRADING, PACKING, AND SHIPPING METHODS

	Each, Rate of		
	100	500	1000
JUNIPERUS			
Chinensis Pfitzeriana			
8-10"	.55		.50
10-12"	.65		.60
Sabina Tamariscifolia			
8-10"	.50		.45
10-12"	.65		.60
PACHYSANDRA TERMINALIS			
8-10"	.25	.23	.20
PICEA			
Excelsa			
10-12"	.40		.35
Glauca Conica			
6-8"	.65		.60
8-10"	.75		.70
Glauca Densata			
4-6"	.30		.27

	Each, Rate of		
	100	500	1000
Pungens			
6-8"	.40		.35
8-10"	.45		.40
10-12"	.50		.45
PINUS			
Nigra			
8-10"	.35		.32
10-12"	.40		.35
TAXUS			
Cuspidata Capitata (from cuttings)			
4-6"	.50		.45
Cuspidata Densiformis			
4-6"	.55		.50
Cuspidata Intermedia			
4-6"	.50		.45
6-8"	.55		.50
Cuspidata Spreading			
6-8"	.50		.45
8-10"	.60		.55

	Each, Rate of	
	100	500
Media Hatfield		
4-6"	.45	
Media Hicksi		
4-6"	.45	
6-8"	.50	
THUJA		
Occidentalis		
10-12"	.30	
Occidentalis Nigra		
8-10"	.35	
10-12"	.40	
Occidentalis Pyramidalis		
10-12"	.40	
12-15"	.45	
15-18"	.50	
Occidentalis Wareana		
12-15"	.55	
Occidentalis Woodwardi		
6-8"	.45	

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